

# Index

NOTE.—Entries appear in this Index under subjects or titles. Bulletins, circulars, etc., having no specific subjects are entered under the issuing office only. Index citations are to entry numbers in the catalog.

A		Entry
A.C.I.C., see Aeronautical Chart and Information Center.		
A.E.C., see Atomic Energy Commission.		
A.F.R.O.T.C., see Air Force Reserve Officers Training Corps.		
A.M.S. series	19-27, 1252-57, 3011-19, 4136-41, 5476-83, 7004-9, 8279-82, 9567-74, 11561-573, 13676-683, 15250-255, 17166-172.	
A.R.S. series	41-51, 1277-82, 2273-74, 3034-38, 4151-56, 5508-13, 7031-39, 8288-96, 9587-89, 11594-604, 13708-712, 15279-292, 17182-186.	
A.T.&T. Co., see American Telephone and Telegraph Co.		
Abaca, fiber program, audit report, 1958.		7330
Abbott, George, nomination, hearing.		6064
Abbott, Harold W., and others, relief.		12103, 14413
Abbreviations:		
Air Force manual.		4203
contractions used in FAA air traffic control, etc., manual.		17238
drawings and technical-type publications, military standard.		12579
ABC of selling to U.S. Government.		4052
Abelard Reynolds School No. 42, Rochester, N.Y.:		
chapel bells, duty free entry—law.		8519
reports.		4580, 7576
Ability:		
personnel inventory barometer, development of questionnaire.		10420
submarine service, correlates of disqualification.		10421
your gifted child.		1478
see also Aptitude tests.		
Abiquiu Dam, outlet works, hydraulic model investigation.		12620
Abraham, Samuel, relief.		4510, 5979
Abraham Lincoln Birthplace National Historic Site:		
designating—law.		14079
reports.		12500, 15827
Abraham Lincoln National Historic Park:		
change name—law.		14079
reports.		12500, 15827
general information.		2069
Abramovich, Arie, relief.		5960
Abrams Creek, stream reclamation project, benefits to sport fishing.		12691
Abrasives:		
Federal supply schedule.		16365
grading abrasive grain on coated abrasive products, standard of trade.		13818
materials—minerals yearbook chapter.		16684
Mines Bureau research.		13328
production, etc., 1958.		3859
See also Diamond abrasives.		10435, 13328
Absorbents, non-microbial, use in detecting viruses, USSR studies.		3753
Absorption coefficients, determination and infrared dispersion.		8151
Absorption of gases in presence of surface-active agents, USSR.		14859
Abstraction and generalization as principal physiological functions of child's brain.		6484
Abstracts, see names of departments, etc., issuing abstracts—also subjects.		
Academia Sinica:		
conference on metallurgical activities.		6556
Institute of Oceanography, Laboratory of Embryology, research of past 8 years.		16553
laboratory of semiconductors, Institute of Applied Physics, forward leaps, Communist China.		9211
Academy of Medical Sciences, USSR:		
Department of Clinical Medicine, organizational activity, 1958.		14911
Department of Hygiene, Microbiology, and Epidemiology, review of 1956-57 scientific-research activity of members not working in institutes of Academy.		6401
all-Union conference on tissue incompatibility, transplantation of organs and tissues, etc.		815
international connections and course for research 1959-65, discussion.		7911
Medico-Biological Sciences Division, research activities.		7899
natural nidal character of human diseases, discussion.		12943
report on general laws of infections and epidemiologic process and basis for elimination of infectious diseases, discussion.		14912
scientific research work of institutions, results.		14915
Academy of Sciences, Armenian SSR		
news, physico-mathematical, natural, and technical sciences series, abstracts.		10833
Academy of Sciences, Czechoslovakia:		
conference on organ and tissue transplantation reaction problems.		7898
organization, publications, etc.		677, 716



# INDEX, 1959

	Entry
Academy of Sciences, Estonian SSR news, technical and physico-mathematical sciences series.....	10034
Academy of Sciences, Latvian SSR, synthesis of therapeutic preparation, USSR study.....	6579
Academy of Sciences, Ukr SSR, reports, abstracts.....	7185
Academy of Sciences, USSR:	
Council on Coordination of Scientific Activity of Academies of Union-Republics and Affiliates.....	17528
Institute of Oceanography, chemical research in Far Eastern waters, etc.....	16542
Institute of Physics of the Earth, seminar on surface seismic waves.....	9253
new books, brief reports on publications.....	6623
news:	
Department of Chemical Sciences, abstracts.....	8438, 10835
Department of Technical Sciences, abstracts.....	7181, 10836
geography series.....	10837
geology series, abstracts.....	10838
geophysics series.....	10839
mathematics series, abstracts.....	10840
physics series, abstracts.....	8439, 10841
Physics Institute imeni P. N. Lebedev, organization, achievements, etc.....	800
reports, abstracts.....	7186, 10862
review of 1958 activities.....	17546
Academy of Sciences, Uzbek SSR, handbook.....	10273
Acceleration:	
analysis data from 4-engine transport airplane operating over northwestern U.S.-Alaskan route.....	5265
analysis data from turboprop transport operating over eastern U.S.....	16881
radial cardiac activity of healthy persons, USSR study.....	12930
radial, physiological reactions of man, USSR studies.....	1769
rapidly applied, human tolerance, summary of literature.....	13433
Accelerators:	
particle, use in nuclear physics (remarks).....	9671
Standoff linear electron-construction, authorize hearing.....	14101
technical background and financial aspects to projects, hearings.....	14105
Accelerometers, calibrating and checking, methods and apparatus, USSR study.....	7961
Access roads, see Roads and highways.	
Accessories (dress), see Clothing.	
Accident Boards and Commissions, Industrial, International Association of, see International Association of Industrial Accident Boards and Commissions.	
Accidents:	
and injuries, causes in boiler-shop-products industry.....	3811
departmental edition.....	3267
document edition.....	5715
children, causes and prevention.....	5715
death rates by age, color, and sex, 1941-51.....	15109-110
fatal, United States and each State, 1957.....	16957
ground accident abstracts.....	2300, 10752
industrial, in atomic energy activities.....	13803

	Entry
Accidents—Continued	
persons injured, United States, July 1957-June 1958, statistics.....	6912
prevention—	
handbook, Air Force manual.....	3090
PACAF basic bibliographies.....	9634
radiation, in atomic energy activities.....	13803
see also Aircraft accidents—Mine accidents—Motor vehicle accidents—Railroad accidents—Safety of life.	
Acclimatization of man on ice floes in North Arctic Ocean.....	12866
Accountants, examination announcements.....	3204, 4372, 4378-79, 4385
Accounting, see Accounts and accounting.	
Accounting clerks, examination announcement.....	3211
Accounting machines, facts for industry.....	13864
Accounts and accounting:	
accounting series releases, SEC.....	2927, 11466
Air Force manuals.....	5587, 8362-63
Air Force Reserve personnel, manual.....	3107, 8361
code of Federal regulations.....	6135
deceased members of House of Representatives, procedure for settling—	
law.....	11989
reports.....	8636, 12422
engineer command management system, divisions and districts.....	4784
Federal agencies—	
accounting forms, GAO guidance manual.....	6280, 10185
principles and procedures, GAO guidance manual.....	1704, 7841, 12758
Standardized fiscal procedures, GAO guidance manual.....	3590, 6279, 9110, 1470-741.
Federal reserve bank purchase of warrants, regulation.....	14638
financial accounting for school activities throughout U.S., guide.....	14591
flow of funds, savings and investment, quarterly presentation.....	16347
machine accounting, prediction of success in—	
courses.....	3
jobs.....	3002
Navy comptroller manuals.....	1132-33, 2092-93, 8156-57, 10545, 13522-523, 15134-141, 16998-999, 17811-812.
Navy Department, modified system.....	3992
payment and accounting procedures, N.G. regs.....	3956
professional career in GAO.....	14742
property accounting, lost, damaged or destroyed, N.G. regs.....	6808
public schools, property accounting guide.....	17374
public utilities and licensees, uniform system.....	17411
publications, price list.....	6905
structure and codes, Air Force manual.....	137, 4226, 5586, 7096-97
students study guide.....	8915, 14583
system and procedures, Air Force manual.....	5587, 8362
telephone plant code and account handbook.....	17070
uniform system for locker and freezer provisions, guide.....	13723
Vietnam, North, management functions in basic construction field.....	9169, 12801

# JANUARY-DECEMBER

	Entry
Accounts and accounting—Continued	
year end Federal payroll periods, allocate to proper fiscal year accounts—	
hearing—	8748
law—	12008
reports—	8650, 10008
see also Auditing.	
Accounts Bureau, Post Office Department, records, preliminary inventory—	15091
Accuracy of information on line work orders for armament-electronics maintenance—	5609
Accuracy of mean monthly geostrophic wind vectors as function of station network density—	17221
Acetic acid:	
distribution between solvent and soap micelles in benzene solutions—	5342
efficacy in causal treatment of acute Y-91 intoxication, USSR study—	14943
ethylenedinitriol tetraacetic, metal-indicator systems used in titrations—	179
Acetylcholine, prophylactic application in combination with adrenalin for radiation disease—	623
Acetylene, synthesis from natural hydrocarbons or industrial gases, USSR—	629
Achievement, can America afford mediocrity (address)—	10393
ACIC, see Aeronautical Chart and Information Center.	
Acids:	
aromatic, applications, development of high temperature lubricants—	3991
use of injections to prevent scale in vapor compression distillation units—	10639
see also names of acids.	
Ackerman, Martin, relief—	12100, 13991, 14424
Acoustics, see Sound.	
ACP, see Agricultural conservation program.	
ACR series—	13521
Acreage allotments, see Agricultural products—also names of products.	
Acreage-marketing guides—	17, 3009-10, 4135, 11559
Acerididae, see Melanoplus.	
Acrylate, see Dihydroperfluorobutyl acrylate.	
Acrylic plastics, see Plastics.	
ACTH, see Adrenocorticotrophic hormone.	
Actinophages, phenomena, economic task in scientific field, USSR study—	13248
Actions at law:	
cooperative cases, summary—	2510, 11041
defense of suits against Federal employees arising out of motor vehicle operation—	
hearings—	14346
report—	12115
litigation releases, Securities and Exchange Commission—	2926, 11471
Miller act payment bonds, date of statute of limitations—	
law—	13998
reports—	7417, 12457
packers and stockyards act, monthly report—	2216, 10671
proceedings in forma pauperis, include aliens—	
law—	15685
reports—	12148, 16153

	Entry
Actions at law—Continued	
suits against government of Guam, amend organic act—	
law—	15681
reports—	4853, 16159
tax refund suits against Internal Revenue Service, assessment of costs, clarify law, report—	8807
see also Civil procedure—Criminal procedure—Habeas corpus.	
Activated charcoal, see Charcoal.	
Active influence on weather, USSR—	3718
Active standardization projects, standards, specifications, studies, and handbooks—	4755
Acts of Congress, see Law.	
Actuarial values for estate and gift tax—	9140
Actuaries:	
examination announcement—	5729
discontinuance notice—	5741
Actuaries Board:	
civil service retirement system valuation, special report, 1958—	17338
retirement and disability fund, report, 1957—	3340
Acupuncture:	
effect on cardiac action of dog, Chinese study—	10261
therapy in treatment of radiation reaction, Chinese study—	9197
Adams County, Colo.:	
property adjacent to Rocky Mountain Arsenal, quiet title and possession—	
law—	15683
reports—	15822, 16104
Adams Manufacturing Co., relief—	9820
Adams Parkway, see President Adams Parkway.	
Adaptation, see Dark adaptation.	
Addicts, see Narcotic habit.	
Additives:	
chemical, added to meat, use in eliminating undesirable effects of ionizing radiations—	6920
color, to food, drugs, and cosmetics, amend act, report—	16073
Addresses (mail matter), see Mail matter.	
Addresses, lectures, etc.:	
by—	
Abbott, George W.—	17851
Abbott, Ira H.—	8057-58
Abbott, Russell J.—	11822A
Aebersold, Paul C.—	5656, 8420
Alldredge, Everett O.—	13453
Allen, John J. Jr.—	4409,
5767, 7254, 7261, 7263-65, 7268,	
7272, 9750, 15550, 15552-553	
Allin, Bushrod W.—	17178
Anderson, Carl C.—	6645
Anderson, Robert B.—	2120, 5450, 8263
Ankeny, Marling J.—	10460
Armstrong, Ellis L.—	1156-57,
4030-31, 4034, 5391-92, 8202-	
3, 9473, 9475, 15174-175, 17833	
Bachman, Kenneth L.—	1289
Baird, Julian B.—	17148
Bakke, Oscar—	9728, 15498
Balderston, C. Canby—	4827, 7727,
9008, 16345	
Barnard, Rollin D.—	17025
Barnett, Joseph—	5388
Barton, G. T.—	57
Beale, W. T. M.—	9509
Bean, Stephen S.—	6813
Benson, Ezra T.—	60-77, 3044-46,
4162-66, 5322-23, 7045, 11612-	
619, 11648-650, 11652, 13718-719	
Berger, Walter C.—	17308
Biehl, Max—	6388
Boettger, Otto—	5027
Breakiron, P. L.—	7013

# INDEX, 1959

Addresses, lectures, etc.—Continued	Entry
by—continued	
Breimyer, Harold F.	1270, 4144, 5500, 11591
Brenn, Harry A.	17096
Brewster, John M.	17188
Brown, Carl B.	10588
Brown, Newell	1965, 9275, 10393, 16644
Burk, Marguerite C.	11587, 15276
Burke, F. Richard	7028
Burley, Samuel T.	9583
Burns, Norman	2151
Byerly, T. C.	3040, 9594
Campbell, Proctor	5496
Cannan, R. Keith	6996
Carson, Matthew V., Jr.	4951, 14782
Cass, Millard	1966, 9280, 10394, 16648
Chu Kuang	3663
Clague, Ewan	1972, 1975, 3810, 3819, 3823, 8011, 9312, 10406, 13296, 13298.
Clarkson, M. R.	13715
communist leaders	17087
Conover, Arthur G.	1273
Cottam, Howard R.	4070
Daly, R. F.	57
De Camp, Daniel	35
Denison, Charles R.	8990
Dillon, Douglas	6944, 6947
Dominy, Floyd E.	17834
Downey, Carroll	1261
Dregge, John W.	15505
Drisko, Melville A.	6213
Dryden, Hugh L.	5213, 5305, 17721
Dulles, Allen W.	10592
Dulles, John F.	1196-97, 4077, 5419-20
Dunham, Charles L.	8418
Durfee, James R.	4305-66, 11815, 11821
Easley, Bruce	13455
Edwards, Walter A.	273, 1504, 13900
Elting, E. C.	5517
Fanning, John H.	1106, 8108, 9405, 16951-952
Fenton, Jerome D.	5321-23, 6815
Ferguson, C. M.	3453-54
Fisk, Bradley	8501, 15543
FitzGerald, D. A.	4067
Floberg, John F.	5660, 15437
Ford, Walter C.	8989
Forest, H. L.	4147, 11584
Francis, C. J.	13593
Furniss, Robert L.	6277
Gable, Charles J., Jr.	4116
Gerra, Martin J.	1260
Gilchrest, Charles J.	8177
Gilhooley, John J.	7967-68
Gillette, Hyde	13549
Glennan, T. Keith	2015-16, 3950, 5304, 5307, 6679, 6797, 8059, 9356, 15044, 15089, 16930, 17720
Godwin, Richard P.	8988
Gull, Ben H.	6126, 8993
Hamill, David A.	1163, 6926-27, 17836
Hart, Horace	13823
Hecht, Reuben W.	7040
Hector, Louis J.	245B, 7226, 11816, 13871
Hendrix, William E.	15294
Herrmann, Omer W.	8283
Herrmann, Louis F.	4150
Herter, Christian A.	10594, 15202, 17097
Hodges, Luther H.	17293
Hodgson, R. E.	11602
Hoegh, Leo A.	7234, 8467, 9732-33, 11823-826, 15506-507
Honeywell, Jesse M.	16672
Horner, Richard E.	10464
Hsin Lan-T'ing	12879
Ireland, Otto	13453
Irving, George W.	1286

Addresses, lectures, etc.—Continued	Entry
by—continued	
Jenkins, Joseph A.	9406, 10512, 13464
Johnson, Jesse C.	4338, 7157
Karpoff, Edward	1266
Kearns, Henry	271-272, 3249, 4408, 5765, 7255-56, 7258-59, 7269, 8495, 8497-8500, 9746, 11872, 13901, 13905, 15546-548
Kerr, Gerald M.	17671
Ketchum, Harry W.	200
Koenig, Nathan	11581
K'o-wen, Wang	583
Kriesberg, Martin	7029
Kriesel, H. C.	1265
Kromer, George W.	1267, 1271
Kunst, Jaap	3833
Kuo-fang, Hua	6345
Leedom, Boyd	5320, 9407
Leopold, Alice K.	8278, 9562
Libby, Willard F.	4337
Liu Keng	3677
Lodge, George C.	5161, 16643
Lyons, Eugene J.	8169-70
McCone, John A.	5655, 5659, 7158, 7162, 9670-71
McCool, Ollon D.	13455
McCormack, George R.	16670
McCoy, Horace B.	15453
McGrath, Edward J.	5490
McLain, Marvin L.	110, 3078, 4175
MacNamara, William S.	15499
Manning, Knox	270
Marsden, Howard J.	6128, 16324
Martin, William M., Jr.	405, 10110
Mason, Norman P.	12644
Mead, Charles P.	13301
members of FCC, repeal provision relating to honorarium, report	14476
Metzler, William H.	15298
Meyers, Trienah	7020
Middleton, William S.	6996
Miller, Clarence L.	9618
Miller, Marshall E.	5497
Mills, A. L., Jr.	16346
Mitchell, James P.	1959-62, 5159-60, 7966, 9270-73, 9276-78, 16639
Molotov, V. M.	4994
Moore, George M.	5372
Moore, George T.	13902-903
Morse, Clarence G.	4818
6127, 8991, 10101, 12647, 14627	
Morse, True D.	86, 93, 113, 3077, 3079, 5524, 5554, 7051, 9600, 11655
Motley, Arthur W.	16650
Mueller, Frederick M.	269
4410, 4413, 5766, 7252, 7262, 7267, 7270, 8493-94, 8496, 9748-49, 13904, 15544-545, 17307	
Murphy, Robert	4069
Myers, Lawrence	5768
Myers, Max	1643, 1648, 17434
Myers, Trienah	17177
Nace, R. L.	17484
Nash, Bradley	15549, 15551
Naughten, Thomas E.	8230
Norton, E. A.	8225
O'Connell, James T.	1963, 7970, 9274, 9279, 9282, 13278, 16646-647, 16649.
Oechsle, Carl P.	7253, 7266, 8492, 9747, 11864, 15542, 15554
Olsen, Niels A.	4343
Palmby, Clarence D.	3251, 9752
Pals, C. H.	11610
Patterson, W. F.	1964, 10392
Pel Li-sheng	16547
Penfield, James K.	15201
Peterson, Ervin L.	116, 11651
Pettus, David M.	36
Phillips, Reed A.	11647
Pierce, John C., Jr.	28
Pittman, Frank K.	17273
Place, Edward R.	4048
Poats, Frederick J.	5491

# JANUARY-DECEMBER

Addresses, lectures, etc.—Continued	Entry
by—continued	
Post, R. F.-----	8412
Post, Robert E.-----	1272
President Eisenhower-----	1179
1518, 1626, 6160, 6927,-----	17412
Pubols, Ben H.-----	1269
Pyle, James T.-----	8983
Quesada, E. R.-----	16307
Rafter, Doris D.-----	1264, 13698
Randell, C. G.-----	399
Ranny, A. F.-----	1292
Ransom, John C.-----	907
Reinhardt, G. Frederick-----	8252
Rice, William-----	13453
Reifler, Winfield W.-----	12658
Rivenburgh, Dexter V.-----	1644
Robertson, J. L.-----	7730, 10108
Rodgers, Phillip R.-----	6812, 17779
Sands, James H.-----	7172
Satterthwaite, Joseph C.-----	6952
SBA and SEC officials-----	5406
Schnellbacher, E. E.-----	6218
Schwartz, Delmore-----	907
Scribner, Fred C., Jr.-----	5449, 17146-147
Seaton, Fred A.-----	6319, 9139
Seaver, Robert E.-----	403
Sessions, Edson O.-----	6889, 9455
Shaw, Byron T.-----	40, 52, 59, 1285, 3041, 5516, 5520, 8303, 11593, 11609
Shepherd, D. R.-----	9598
Sherr, Harry-----	1268
Siedle, E. George-----	6895-97
Siepert, Albert F.-----	5306
Simmons, Will M.-----	1274
Smith, Marshall M.-----	4412
Snitzler, James R.-----	32
Spears, Joseph F.-----	9595
Staebler, Ulysses M.-----	9673
Stakem, Thomas E., Jr.-----	3462-63, 6129, 8892, 14628, 17406
Stephens, David H.-----	8174, 17017
Stewart, H. L.-----	1290
Stewart, Homer J.-----	2054, 3880
Stokes, Donald R.-----	7026, 17173, 17179
Strauss, Lewis L.-----	7260, 7271
Sullivan, E. Kemper-----	4817
Summerfield, Arthur E.-----	1141, 2103, 5374, 6890, 6898, 8171, 8175-76, 15149, 17012-13, 17018-20, 17024, 17027-28
Sun Tso-pla-----	1757
Szymczak, M. S.-----	6166
Thigpen, J. E.-----	7274
Todd, Frank A.-----	8300
Tootell, R. B.-----	7683
Trelogan, Harry C.-----	33A
Upton, T. Graydon-----	5448, 6986, 10628
Vance, Harold S.-----	9674
Van Houwelding, C. D.-----	9586
Vickery, R. E.-----	1646
Walsh, Robert M.-----	7021, 11592
Walter, L. Rohe-----	5373, 9456, 15152, 17014-15, 17815
Washington, George-----	
print as House document, re-	
port-----	5832
text-----	5814
Waterman, Alan T.-----	6840
Weatherbee, Artemus E.-----	6891
Webster, R. Lyle-----	16484
Wells, Oris V.-----	37
Wheelock, John H.-----	907
White, Jacob W.-----	13455
Wickens, Arnyess L.-----	13277
Williams, Donald A.-----	2136, 4063, 5412, 8224, 8228
Winfrey, Robley-----	17060
Wirth, Conrad L.-----	6831
Wolfbein, Seymour L.-----	13300
Woolley, Edward-----	3826, 6635-36, 8014, 9323, 10408
Wrather, Stephen E.-----	17176
Young, Gladwin E.-----	13594, 17080
Commerce Department releases-----	2418

Addresses, lectures, etc.—Continued	Entry
Defense Dept. seminars on provision-	
al technical documentation-----	4761
Federal Maritime Board, Maritime	
Administration, series-----	403, 2547, 8462-63, 4817-18, 6126-29, 8988-93, 10101, 12647, 14627-628, 16324, 17406
public speaking, PACAF basic bib-	
liographies-----	7113
works for oral delivery, copy-	
righted-----	345, 8912, 17364
Addressing machine operators, exam-	
ination announcement-----	5734
Aden, economic developments-----	7797
Aden, Gulf of, sailing directions-----	1720
Adhesives:	
attaching electric strain gages to	
plastics-----	17007
bonds in metal joints, relationship	
of polymer structure thermal	
deterioration-----	13451
high-impact strength, synthesis	
from epoxy resins-----	6882
industrial, cutting costs-----	13586
physical properties and uses-----	8162
plastic flow throughout volume of	
thin bonds-----	1679
structural, inorganic polymer, ele-	
vated temperature resistance	
research-----	1365
Adjustment Board, National Railroad,	
see National Railroad Adjust-	
ment Board.	
Adjutant General's Office:	
PRB technical research notes, 1-3, 1237-	
43, 3002, 4127-29, 9565, 11555	
listings and abstracts-----	1238
PRB technical research reports-----	4, 1244-45, 5470, 9566
listings and abstracts-----	1238
Administration, see Administrative	
management.	
Administrative assistants, employ-	
ment by each House Member,	
reports-----	4554, 4600
Administrative management:	
administrative personnel, code of	
Federal regulations-----	6135
administrators in Air Research and	
Development Command, career	
opportunities-----	147-148
Air Force—	
civilian personnel activities,	
evaluation guide manual,	
transmittal sheets-----	128, 8350
manuals-----	123, 3087-88, 4203-4
working leader management	
course—	
Air Force pamphlet-----	4236-50
conferee's workbook-----	1334
aviation management courses, offer-	
ings in colleges and universi-	
ties list-----	1595
bibliography for executives-----	13674
civilian career opportunities in	
Army Department-----	15390
codes, Ordnance Corps manual,	
change-----	13535
contracting out government respon-	
sibility—	
hearings-----	8746
report-----	12186
cooperatives—	
farmer, management training-----	10093
rural electric, policy making	
guide-----	5399
Federal agencies, study, authoriza-	
tion, report-----	3376
Federal Government executive per-	
sonnel policy (address)-----	9274
higher education, planning and	
management data, 1958-59-----	8935
jobs, prediction of success-----	3002

# INDEX, 1959

	Entry		Entry
Administrative management—Con.		Adrenal glands:	
management analysis, Air Force		blood of rats at various periods	
manual.....	1344	after irradiation, cortico-	
managing for better morale.....	4055	sterone content, USSR studies.....	3736
Navy management review.....	2869, 11410	hypophyseal system in manifesta-	
Navy's limited duty officers quali-		tions of experimental radiation	
cations manual.....	5339	sickness, USSR studies.....	6619
Ordnance Corps civilian employees		medulla removal, effect on higher	
group appraisal, tool for man-		nervous activity, USSR	
agerial development.....	1139	studies.....	1810
PACAF, basic bibliography, exclud-		role in maintenance of blood pro-	
ing personnel.....	9637	tein and antibodies, USSR	
personnel administration—		studies.....	6489
effective system for executive		secretory functions in newborn	
branch of Government—		animals, influences from	
hearings.....	14576	splanchnic nerve, USSR study.....	16619
report.....	16224	Adrenalin:	
literature.....	2403, 10932	excretion in urine during experi-	
PACAF basic bibliographies.....	9638	mental dietary hypercholes-	
personnel information bulletin		teremia and atherosclerosis,	
of VA.....	9537, 10630, 17150	USSR study.....	6611
personnel management series.....	261, 13892	prophylactic application in combi-	
personnel management training		nation with acetylcholine for	
unit.....	876-877	radiation disease.....	623
personnel methods series.....	262, 17299	Adrenocorticotrophic hormone, effect	
position classification.....	4117	on basic processes of cerebral	
prediction of success in personnel		cortex, USSR study.....	6610
and administration courses.....	3	Adsorbents:	
program planning and execution		porous, effective adsorption of mix-	
(address).....	3041	ture vapors, USSR study.....	14921
public management sources.....	2330, 10778	porous structures, influence on form	
public property and records, im-		of adsorption isotherms of	
proving in Dept. of Interior		vapors, USSR study.....	12927
field offices, workshops, reports,		structure, role of adsorption of	
etc.....	16485	gases and vapors, USSR study.....	10348
resident in hospital administration,		Adsorption:	
examination announcement.....	3205	chemical, by mono-electron and bi-	
school boards, characteristics of		electron bonds, USSR studies.....	9264
policy manuals.....	7665	clay, water sensitivity measure-	
small business—		ments.....	941
management aids for small man-		Isotherms of vapors, influence of	
ufacturers.....	2131, 6930, 9487-88,	porous structures of adsorbents	
13580-581, 15183-185, 17073,		on form, USSR study.....	12927
annual compilation.....	9489	method, thermal separation of gas	
management series.....	4054, 9491, 13584	mixtures, theory, USSR study.....	13276
starting and managing series.....	4057, 17845	multimolecular theory, USSR	
staff development as integral part		study.....	12925
of administration.....	4014	phenomena in gas-solid phase,	
staff development provisions in		survey.....	3118
State public assistance plans,		research by chemical faculty, Mos-	
characteristics.....	4015	cow State University.....	12984
supply management handbook for		soluble fluorocarbon, derivatives at	
Air Force commanders.....	15351	organic-liquid/air interface.....	8145
Administrative Office of United States		sorption dynamics of 2 components	
Courts, report, 1958.....	5471	of a mixture, USSR study.....	9255
Administrative Procedure Office, re-		uni- and multimolecular, from	
port, 1958.....	16636	solution on nonporous ad-	
Administrators, Air Force opportuni-		sorbent, USSR study.....	9257
ties.....	4260	vapors mixture by porous ad-	
Admiral by 1992.....	8135	sorbents, USSR study.....	14921
Admissions tax:		Adult education, see Education.—	
exemptions for athletic games held		Vocational education.	
for benefit of crippled or re-		Advanced Research Projects Agency,	
tarded children—		hearings, reports, etc. on outer	
law.....	15684	space, compilation.....	16229
reports.....	14234, 14534	Advertising:	
guide for small business.....	4957	and promotion, to increase do-	
Admixtures, spots in sea, calcula-		mestic demand for farm prod-	
tion of turbulent horizontal		ucts (paper).....	7021
diffusion, USSR.....	5151	false and misleading.....	
Adoption:		dentifiers, hearings.....	1548
and foster home costs, study.....	3191	pricing representations, guides	
attorney's part.....	5714	adopted by FTC.....	9492
definition of term child in veterans'		report.....	3378
laws, amend—		volume and expenditures.....	10580
law.....	14050	Advertising agencies, foreign, direc-	
reports.....	12214, 14452	tory.....	7768
foreign children, guidance manual		Advisory Commission on Educational	
for service couples, DOD pam-		Exchange, semiannual report.....	3287,
phlet.....	3132	14117	
social worker's role.....	1476	Advisory Commission on Informa-	
when you adopt a child.....	1475	tion:	
		report, 1958—	
		departmental edition.....	5473
		document edition.....	5817



# JANUARY-DECEMBER

	Entry
Advisory Commission on Intergovernmental Relations:	
establish—	
hearings—	12293
law—	15744
reports—	12237, 12482, 15925
views—	12237
Advisory Committee on International Rules of Judicial Procedure:	
extend—	
law—	15652
reports—	12254, 14530
Advisory Committee on New Educational Media:	
functions—	6099
law establishing—	
administration, hearings—	5924, 9908
guide—	3420
Advisory Committee on Payments to Local Governments:	
establish—	
minority views—	16113
report—	16113
Advisory Committee on Reactor Safeguards:	
operations, etc.—	
hearings—	12028
reports—	7316, 8419
Advisory Committee on Voluntary Foreign Aid:	
commodities and funds—	2689
roster of agencies interested in technical cooperation abroad—	7876
technical cooperation programs—	14784
Advisory Committee on Weather Control, weather modification program, hearing—	15966
Advisory committees, Public Health Service, lists of members—	8102
<i>see also</i> names of committees or subjects with which concerned.	
Advisory Council on International Monetary and Financial Problems, <i>see</i> National Advisory Council on International Monetary and Financial Problems.	
Advisory Council on Social Security Financing, report—	4060
Advisory Council on the Arts, <i>see</i> Federal Advisory Council on the Arts.	
AEC, <i>see</i> Atomic Energy Commission.	
A-erh-tai Shan, <i>see</i> Sinkiang Province, China.	
Aerial mapping:	
aerial mosaics, U.S., status, national atlas sheet—	14750
aerosurveying and cartography, Central Scientific Research Institute, USSR, proceedings, excerpts—	1797
highways, photogrammetric methods, reference guide outline—	5390
mapping and charting squadron, aerial electronic survey, A.F. training standard—	4210-11
Aerial photography:	
interpretation of Alaska interior, indicators of forest land classes—	1669
news of institutes of higher learning of Ministry of Higher Education, USSR, abstracts—	10845
processing, stereophotogrammetric instrument building in USSR—	638
selection of stand variables in southern Maine for making volume estimates—	17469
status, U.S., national atlas sheet—	14751
3 scales compared for making stand measurements—	17468
utilization in troop units, USSR studies—	5023
Viking 12 photography at altitudes ranging up to 143.5 miles—	13506, 15127

	Entry
Aerial photography—Continued	
<i>see also</i> Aerial mapping.	
Aerial prospecting:	
airborne reconnaissance project, Ruby Range and Sweetwater Basin, Mont—	15415
radiometric reconnaissance—	
southern California project, located in California and Arizona, summary—	8402
Valley of Fire-Muddy Mountains region, Nev—	13798
Wind River Basin, Wyo—	5647
Aerial spraying, <i>see</i> Sprays and spraying.	
Aerial surveys, <i>see</i> Aerial mapping—	
Aerial photography.	
Aerial towed targets techniques and procedures—	9624
Aerocentrifuge device for detection of microflora in air of lying-in hospital, USSR study—	5037
Aerodynamics:	
aircraft, translation—	13753
bodies, blunt, with cross sections, pressure distributions at Mach number of 4.95—	16925
bodies which support shock waves shaped like elliptical cones, supersonic perfect-gas flow calculations—	15077
body and fin deflections, effects on characteristics in pitch of 0.065-scale model of 4-stage rocket configuration at Mach nos. 1.41 and 1.82—	16882
body of revolution in vicinity of reflection plane at Mach nos. 1.41 and 2.01, pressure-distribution investigation—	2042
cone-cylinder body of revolution with various nose and fin configurations, force measurements—	6703
equivalent bodies of revolution, numerical method for calculating configuration from 2d derivative of area distribution—	6753
fundamental, on series expansions in magnetic Reynolds number—	13445
jet airplanes during take-off and landing—	16871
loads, bodies with elliptical cross sections and various plan forms, transonic characteristics—	13447
ogive-cylinder body at Mach number 4.04 pressure measurements—	6726, 9635
PACAF, basic bibliography—	9635
parabolic-arc body, pressure distributions at transonic speeds—	3927
semisubmerged store cavities and slots on zero-lift drag of body of revolution, transonic investigation—	16762
slender bodies at Mach number 3.12 and Reynolds numbers from $2 \times 10^6$ to $15 \times 10^6$ —	2027, 2030, 2033
slender-body theory based on approximate solution of transonic flow equation—	17763
3-dimensional lunar mission studies—	13437
wing-mounted external store installation on airplane, aerodynamic forces—	16803
Aerodynamics, <i>see also</i> Air speed—	
Boundary layer—Compressors—Drag (aircraft)—	
Flight—Flow—Heat transfer—Helicopters—Lift (aircraft)—Load (mechanics)—	
Missiles—Propellers—Shock (mechanical)—Stability of aircraft—Wings (aircraft).	

# INDEX, 1959

	Entry
Aeroelasticity:	
span loading, matrix method for calculating steady-state on flexible wings in subsonic flight	10501
static, predicted effects on wings with supersonic leading edges and streamwise tips	6794
straight-winged airplane, oscillatory stability of wing bending coupled with airframe pitch	3945
Aerographer mate 3 & 2, Navy training course	16972
Aerology, experimental work of Brest Aerological Station	1947
Aeromagnetic maps, surveys, etc., <i>see</i> Maps and charts.	
Aeromedical Field Laboratory, administrative history, 1951-58	1324
Aeromonas, bacterial fish diseases	3504
Aeronautical and associated equipment, <i>see</i> Aeronautical supplies.	
Aeronautical and Space Sciences Committee, Senate:	
calendar	10997
hearings, etc.	4734, 4736, 7598, 8872-74, 12520
reports	4727, 7553, 8832, 16982
Aeronautical Center, FAA, Oklahoma City, Okla.	12629
Aeronautical Chart & Information Center, bulletins	2290, 10742
Aeronautical charts, <i>see</i> Maps and charts.	
Aeronautical engineering:	
electromagnetic oscillographs used in research and testing, USSR study	7894
news of institutes of higher learning, USSR, abstracts	10842
Aeronautical instruments:	
combined pilot-static tube, vane-type flow-direction transmitter, and stagnation-temperature element at Mach numbers 0.60 to 2.87, wind-tunnel calibrations	17752
maintenance, repair, and alteration, civil aeronautic manual	1616, 6117, 7689
standards, list	2305, 10756, 17222
static-pressure orifices of airspeed head, external interference effects of flow	5284
Aeronautical insurance, <i>see</i> Aviation insurance.	
Aeronautical lighting, <i>see</i> Lights and lighting.	
Aeronautical ratings, <i>see</i> Ratings.	
Aeronautical supplies:	
Air Force equipment for aircraft and guided missiles, technical information file, list, amendment	1360, 17399
aircraft radio equipment, 1958	4793, 11042
aircraft specifications	4133
electronic equipment, Navy, preferred circuits handbook	2314, 10762
material and process specifications	2305, 10756, 17222
standards, list	
Aeronautics:	
agricultural applications, research and development, conference report	13717
air mobility and Army, special bibliography	4301
airman's guide—	
Alaska	2513, 11046
Pacific supplement	2512, 11044
notices to airmen	11045
United States	2511, 11043
American aerospace, historical data, chronological, 1903-58, Air Force pamphlet	9630

	Entry
Aeronautics—Continued	
Antigo, Wis. airport dedication (address)	11815
Army aviation—	
digest	2323, 10770
special bibliography	4300, 8387
atomic, biological, and chemical defense, Yugoslavia studies	5132
aviation education series	1589, 8536
aviation radio services, FCC rules and regulations	7701, 12637, 14618
career and scholarship reference sources	8936
charts and publications of ACIC, semimonthly bulletin	2290, 10742
civil aeronautics act of 1938—	
amend, hearing	8737
comparative print	7627
civil aeronautics manuals	1615-16
civil air regulations	4797
amendments	1480, 3441-48, 4798, 7692-95, 8982, 12632-34, 14612, 16296-305, 17394-398,
special regulations	2589, 11053
civil aviation—	
airline management, problems (remarks)	245B, 4958
bibliographies and films	1614
CAA statistical handbook	6148-49
code of Federal regulations	7717
compilation of laws	11817
Government publications, price list	8187
policy, report, amendment	15335
USSR periodical, abstracts	8428
colleges, universities, and public vocational schools with aviation or ground school courses approved by FAA	12595
FAA Aeronautical Center, program, facilities, etc.	12629
Federal aviation act—	
amend—	
hearing	7628
law	11968
reports	7560, 8701, 8705, 9860
comparative print	7627
text	11817
Federal role, hearings	3324
fixed communications services map	15370
general aviation alert bulletin	12635
ground-cushion phenomenon—	
hearings	8753
reports	9839, 9924
International aviation agreements, role of Commerce Dept. in negotiation (address)	15549
International notams	2517, 11050
International weather schedules, ATM manual	15369A
jet age planning, progress and developments report	3390
key to aviation weather reports	9547
man on wings, USSR study	6534
memorandum for aviators	2667, 11206
meteorological servicing of tower control area and utilization of radar station, Civil Air Fleet at Rostov-on-Don, USSR	16539
military aviation notices	2303-4, 2315
naval aviation—	
air controlman, Navy training courses	9425
Government publications, price list	8187
news	2188, 10645
safety and survival equipment manual	8279
safety review	2187, 10644
training	15124
notice to aviators	2671, 11210
index 1958	6314
PACAF basic bibliography	9635

# JANUARY-DECEMBER

	Entry
<b>Aeronautics—Continued</b>	
recent trends (address).....	5305
research, investigation, authorization, report.....	3296
statutes and related material, compilation.....	11817
training instructor, examination announcement.....	250
Union of Soviet Socialists Republics, designers, aircraft, aerohydrodynamic institute.....	850
United States activities during 1958, report.....	3288
what States can do for aviation (address).....	15505
<i>see also</i> Flight—also certain headings beginning Air.	
<b>Aeronautics and Space Administration, National, <i>see</i> National Aeronautics and Space Administration.</b>	
<b>Aeronautics Bureau:</b>	
abolish and transfer functions—	
hearings.....	9899, 12523
law.....	14029
reports.....	9856, 12136, 12480
poster.....	11557
<b>Aerosols:</b>	
acoustic coagulation and its technical application, USSR study.....	3794
disinfective aerosols as means of disinfecting air, studies.....	5130
generators, helicopter equipment, USSR study.....	7925
grasshopper control, effectiveness.....	7959
hydrogen chloride and hydrochloric acid in air, determination by turbidometric method, USSR studies.....	7951
natural, and nuclear debris studies.....	7107
pyrethrum for control of insects in tobacco warehouses.....	11630, 17199
stream particles settling on obstacles during flow, USSR study.....	3697
supercooled aqueous, freezing, comparison of various equations.....	7920
thermophoresis in aerosol flow, USSR study.....	5111
use of ultrasound in aerosol therapy, USSR study.....	10352
<b>Aerosonic Corp., Government procurement problems, hearings.....</b>	<b>8909</b>
<b>AFCRC <i>see</i> Air Force Cambridge Research Center.</b>	
<b>Afghanistan:</b>	
Ambassador, nomination of Henry A. Byrde, hearing.....	6058
information report, monthly.....	575,
1766, 3667, 6350, 6384, 10218,	
12814, 12848, 12899, 14838,	
17533.	
mutual security in action, fact sheet.....	4075
preparing shipments to.....	3539
<b>AFMDC, <i>see</i> Air Force Missile Development Center, Holloman Air Force Base, N. Mex.</b>	
<b>AFOSR, <i>see</i> Air Force Office of Scientific Research.</b>	
<b>AFPTRC <i>see</i> Air Force Personnel and Training Research Center.</b>	
<b>Africa</b>	
central and western countries, agricultural economies, notes.....	16395
central, sending gift packages to.....	16409
community development conference in Libya, summary.....	7874
east coast, lights and fog signals, list.....	1718, 4935, 14770, 17497
flight information, corrections.....	2304
foreign relations of U.S., 1941—	
departmental edition.....	9504
document edition.....	8528
north, oriental arts.....	16453

	Entry
<b>Africa—Continued</b>	
northern countries agricultural economies, notes.....	10142
northwest, sailing directions, change.....	14773
political, etc., developments, briefing, hearings.....	14334
research studies—	
currently in progress, list.....	1191, 13603
recently completed, list.....	2146
south of Sahara, general agricultural information.....	12695
tropical wheat and flour imports, outlook.....	4868
United States and New Africa (address).....	6952
United States interests, objectives, and operations (address).....	15201
United States trade.....	12721, 17450
west, fats and oils industry.....	16394
west coast—	
lights and fog signals, list.....	528,
4936, 12778, 17498	
tide tables.....	7250
<i>see also</i> British East Africa.	
<b>AFROTC, <i>see</i> Air Force Reserve Officers Training Corps.</b>	
After college, what?.....	8481
<b>Afterbodies:</b>	
conical, jet effects on drag.....	13429
effects of heated propulsive jet on drag characteristics, preliminary results of investigation at transonic speeds.....	13413
jet effects on flow in supersonic stream.....	973
parabolic, effect of nozzle contour on drag.....	16776
sting-support effects on drag and comparison with jet effects, experimental investigation.....	2018
<b>Afterburners:</b>	
combined operations with and without afterburning for minimum fuel consumption in level flight.....	16921
design variables on J47-GE-17 turbojet engine, altitude evaluation.....	16771
ducted, combustion screech characteristics, summary of preliminary investigations.....	9361
flameholding capabilities of aerodynamic jets at operating conditions, exploratory investigation.....	9367
high-temperature, altitude wind tunnel investigation.....	6694
short converging, on turbojet engine, flame-holder and fuel systems configurations, altitude investigations.....	2023
transpiration-cooled, wire cloth screeching-combustion characteristics.....	984
Westinghouse XJ34-WE-32 engine, performance and fuel system coking investigation.....	5227
<b>AFVA, <i>see</i> Visual aids.</b>	
<b>Agar, diffusion precipitation investigation of cellophane botulin toxins and antitoxins of type A and antitoxin sera.....</b>	<b>798</b>
<b>Ago:</b>	
barrier, challenge to all of us (address).....	9275
certificates, where issued.....	9283
reactivity to infections and immunological process, excerpts.....	3685
<b>Aged:</b>	
activities of National Institutes of Health in field of gerontology, research grant and training projects, etc.....	10508

# INDEX, 1959

	Entry		Entry
<b>Aged—Continued</b>		<b>Agricultural credit—Continued</b>	
aged and aging in United States, problems—		income improvement of farm families through production loans—	13740
expert views summary—	16216	information for young farm families—	8312
hearings—	12561	loans and discounts, farm credit banks and associations, annual report 1958—	4791
aging (periodical)—	2663	loans for refinancing under Bankhead-Jones farm tenant act, extend authority, etc.—	
discussion of aging at meeting of Moscow Society of Theraputists—	6606	law—	15697
employment barriers which age presents (address)—	9275	reports—	8845, 12203, 14316
enriching the added years—	9131	review, hearings—	5906
food guide for older people—	8314	see also National farm loan associations.	
guide for State surveys on aging—	16476	<b>Agricultural economics, see Agriculture.</b>	
national organizations in field of aging, programs, etc., hand-book—	17496	<b>Agricultural economists, see Economists.</b>	
problems, study, authorization, report—	4710	<b>Agricultural education, see Agriculture.</b>	
public housing, what it has done and is doing for senior citizens—	15172	<b>Agricultural engineering:</b>	
research in aging, VA prospectus—	6999	research challenge (talk)—	11609
selected references on aging—	6302	SCS national engineering hand-book—	6937, 8226
studies, research and training grants supported by NIH—	5380	utilizing soil survey information (address)—	13593
<b>Agents, see Foreign agents.</b>		<b>Agricultural experiment stations:</b>	
<b>Agglomeration studies in low-pressure hydrogenation of coal in fluidized bed—</b>	9335	report, 1958—	8301
<b>Aggregates:</b>		research facilities development, and role in State and Federal programs (talk)—	1285
lightweight, studies important part of Mines nonrefractory clay research—	15015	State, Federal legislation, etc., affecting—	3072
production, etc., Mines Bureau research—	15021-22	workers in agricultural subjects, list—	7046
radioactive, in stratosphere—	7108	<b>Agricultural extension specialist, examination announcement—</b>	3201
<b>Aging population, see Aged.</b>		<b>Agricultural extension work, see Agriculture.</b>	
<b>Agrarian reform, see Land reform.</b>		<b>Agricultural finance, see Agricultural credit—Agriculture.</b>	
<b>Agreement on tariffs and trade, see General agreement on tariffs and trade.</b>		<b>Agricultural implements, see Farm implements and machinery.</b>	
<b>Agricultural act, see Agriculture.</b>		<b>Agricultural insurance:</b>	
<b>Agricultural adjustment act, see Agriculture.</b>		crop insurance, statutes, compilation—	3048
<b>Agricultural attachés, assignment in U.S. without change of grade, report—</b>	15819	facts for farmers—	9605
<b>Agricultural chemicals, see Chemicals.</b>		Federal crop insurance act, amend—	
<b>Agricultural colleges, see Land-grant colleges.</b>		law—	13995
<b>Agricultural commodities, see Agricultural products.</b>		reports—	5850, 12444
<b>Agricultural conservation program: appropriations, 1960, Agriculture Dept., hearings—</b>	5909	finance review—	13706
handbooks— 6-16, 1247-50, 3005-7, maps, 1957—	4134	supplement—	3032
statistical summary, 1957—	4134	progress made in crop insurance program (address)—	11615
summary, 1957—	1251	<b>Agricultural laborers, see Farm labor.</b>	
<b>Agricultural credit:</b>		<b>Agricultural loans, see Agricultural credit.</b>	
capital and credit, keystone to strong agriculture (address)—	7683	<b>Agricultural machinery, see Farm implements and machinery.</b>	
code of Federal regulations—	9002	<b>Agricultural market reporters, examination announcement—</b>	5723
commercial bank loans, services, suggestions for improvement (address)—	3044	<b>Agricultural marketing revolving fund, audit report, 1958—</b>	4444
control in retail farm supply cooperatives—	7684	<b>Agricultural Marketing Service:</b>	
cooperative farm credit system, report—		activities (periodical)—	2190, 10647
departmental edition—	10089	AMS series—	19-27, 1252-57, 3 0 1 1-19, 4136-41, 5475-83, 7004-9, 8279-82, 9567, 74, 11561-573, 13 6 7 6-6 8 3, 15250-255, 17166-172.
document edition—	9799	appropriations, 1960, Agriculture Dept., hearings—	5909
cooperatives use of credit agencies to meet patron's needs—	3433	periodic reports, list—	3011
credit principles, guide for rural communities—	5396	poster—	15267
<b>Farmers Home Administration loan program and its borrowers—</b>	17187	recruiting bulletin—	2218, 10673
<b>Federal farm loan act, amend—</b>		reports, checklist—	2193, 10650
hearings—	8717, 8877	service and regulatory announcements—	3030-
law—	14023	31, 5502, 11586, 13701, 15274-275	
reports—	7374, 8847	<b>Agricultural marketing specialist, examination announcement—</b>	5723
finance review—	13706	<b>Agricultural outlook, see Agriculture.</b>	
supplement—	3032		

# JANUARY-DECEMBER

	Entry
Agricultural policy, see Agriculture.	
Agricultural products:	
acreage allotments—	
lease within county, hearings—	6042
sale, etc., within county, hearings—	12272
5905, 7436,	
acreage history and allotments, preserve—	
hearings—	12272, 15936
report—	12223
views—	12223
agricultural commodity grader, examination announcement—	17300
carload waybill statistics, 1957—	6332,
6335	
carload waybill statistics, 1958—	12791,
17508	
cash receipts from major farm commodities by States, 1924-57—	4194
CCC storage operations, hearing—	7441
demand forecasts (statement)—	1261
domestic, increase demand for farm products by advertising and promotion (paper)—	7021
exemption in interstate trucking, developments, 1957-58—	13733
farm machinery and production surpluses (talk)—	77
fatty acids content, tables—	9591
foreign trade—	
by countries, 1958—	6212, 12697
digest—	2638, 11177
exports, 1958, fact sheet—	3526
exports, outlook, effect of world situation (address)—	1648
general, 1957-58—	447
markets, developing (remarks)—	1643
outlook charts, 1960—	17435
statistical report—	
annual—	10143
monthly—	2639, 11178
U.S. trade with Latin America—	9061
fresh produce, central packaging operations (talk)—	17173
fresh produce packaging during next 10 years (address)—	17179
grade names, U.S. standards—	81
Guatemala, production and trade—	6209
handling, amend fair labor standards act, hearings—	12564
import duties—	11621
imports, statistical classification, schedule A, changes—	216
interstate transportation, frozen fruits and vegetables, exemption (paper)—	32
marketing—	
activities—	2190, 10647
activities, publications, price list—	17033
cutting costs of handling at retail—	11566
farm food products marketing bill—	15250
marketing research reports—	99-105,
1311-15, 3063-70, 4176-85,	
5544-50, 7054-62, 8318-25,	
9610-12, 11630-641, 13728-735,	
15315-325, 17198-201,	
news tips on regulatory marketing programs—	9567
programs by State departments of agriculture—	11561
spreads, developments, 1958—	9572
outlook for individual commodities, developing within framework of general economic activity (statement)—	1260
packaging and price-marking in retail food stores, improved methods of marketing, study—	100
perishable commodities, regulations for enforcement of act of 1930, as amended—	3030

	Entry
Agricultural products—Continued	
prepackaging fresh produce, practices in U.S.—	11634
price supports—	
active and announced programs—	2423, 10954
administration proposals, testimony of Secretary Benson, hearing—	7434
message from the President—	5810
hearings—	7599
price support, export, and surplus removal, etc., statutes, compilation—	3048
program, charts and tables—	2421, 10952
programs (addresses)—	4162, 4164-65
use of sec. 32 of AAA act fund—	
hearings—	14329, 15935
report—	15850
prices—	
agricultural prices (periodical)—	2191, 10648
general information on how determined and why they change—	7047
prices and price indexes, 1957—	889
processing, etc., fair labor standards act, interpretative bulletin—	1221
producers and changing markets—	6115
production research reports—	111-112,
1321, 4190-91, 5553, 8332,	
9617, 13739-740, 17207-208,	
purchase and sales reports—	2435, 10968
purchase reports—	2436, 10969
raw, effect of fallout contamination, test—	8415
research programs to expand markets, etc., report—	15842
sales reports—	2439, 10972
source of motor fuel, bibliography—	15288
Spain, farm products role in U.S. aid—	17433
Spain, production and trade changes—	9060
standards, U.S. checklist—	3013
supply and utilization measuring, supplement—	15301
surplus—	
disposal outside U.S., exchange for foreign goods of equal value, hearings—	12273
distribution to needy, food stamp plans—	15934
hearings—	14261
minority report—	14261
report—	
distribution to needy, various programs, hearings—	10021
do we want export markets—	6114
industrial uses, developing markets (paper)—	5491
industrial uses, increase, report—	6040
look at surplus commodity operations (address)—	9752
problems (address)—	4175
problems of surpluses and deficits in Near East—	4869
production, marketing, etc. (talk)—	76
reduction recommendations of the President—	8768
what we are doing about surpluses—	10967
surplus commodities agreement with—	
Argentina—	13626
Austria—	15209
Brazil—	4090, 6965, 13621
Burma—	9525
Ceylon—	9518, 17100
China—	15208
Colombia—	4083, 9521
Ecuador—	5434, 9513

Do not order from index; see indicated entry

Page 65



# INDEX, 1959

		Entry
<b>Agricultural products—Continued</b>		
surplus commodities agreement		
with—continued		
Finland	4094	5433
France		16598
Greece		2157
Iceland		8241
India		6963
Indonesia		15205
Israel	1207	8243
Italy	5435	17115
Korea		13632
Mexico	2156	6962
Pakistan	4084	15207
Peru		1202
Poland	13624	15204
Spain	1204	5436, 6964
Thailand		17103
Turkey	2158, 5429-30	6960, 15220
United Arab Republic		4092, 9524, 17114
Uruguay		8238, 13620
Yugoslavia	4095, 6961	15218
trade development and assistance		
act of 1954—		
activities under, semiannual report	4450	12049
agricultural exports and operation, selected data		15937
amend—		
hearings	12273	14325
minority report		14262
law		15706
reports	12441	
14262, 14289, 14436		15919
exports and operation, selected data		15937
long-term contracts—		
hearings	12271	12273
minority report		14262
reports	14262, 14289	15919
review of barter operations—		
hearings	5903	12273
minority report		14262
reports	14262, 14289	15919
text, and amendments, compilation		17319
tray display in retail stores, equipment specifications		27
tropical products, foreign agricultural circulars	2643	11182
uses—		
industrial research to increase, hearings		8718
new uses		8308
research (notes for address)		11655
Vietnam, technical reform under winter-spring production plan		5005
western Europe production, recent developments		6205
world agricultural situation, 1959—		1647
see also Crops—also names of classes of products.		
Agricultural research, see Agriculture.		
Agricultural Research and Development Commission, create, report		15842
Agricultural Research and Industrial Administration:		
establish—		
hearings		8718
report		6040
Agricultural Research and Industrial Board, create, hearings		8718
Agricultural Research Laboratory, University of Tennessee, research progress report July 1-Dec. 31, 1958		7149
Agricultural research scientists, examination announcements	259	
	3202	15514
Agricultural Research Service:		
appropriations, 1960, Agricultural Dept, hearings		5909

		Entry
<b>Agricultural Research Service—Con.</b>		
ARS series	41-51	1277-82
2273-74	3034-38	4151-56
5508-13	7031-39	8288-96
9587-89	11594-604	13708-712
15279-292	17182-186	
publications received		2277, 10729
service and regulatory announcements		1288
veterinarians, career opportunities		1316
Agricultural situation, see Agriculture.		
Agricultural statistics, see Agriculture.		
Agricultural supplies, Federal supply schedule	3485, 4839-40, 9029	14657, 16368
Agricultural workers, see Farm labor.		
Agriculture:		
act of 1956, amend—		
law		15634
reports		15818, 16065
African countries, economies, notes		10142, 16395
agricultural act of 1949, amend—		
hearings	7435, 7438	7440
reports	7399, 7405	7597
8648, 8683, 8698, 8716		8811, 9833
views		7405, 8648
agricultural act of 1949, proposed changes, drafts		14546
agricultural adjustment act of 1938, amend—		
hearings	5905, 6042-43	7436, 7438, 7600, 8879
law		12272, 15936
reports		15722
7597, 8648		8716
9833, 12189		12223, 12515
views		8648, 12223
agricultural adjustment act of 1938, proposed changes, drafts		14546
agricultural adjustment act of 1949, amend—		
hearing		6043
report		12445
agricultural economics research		2189, 10646
agricultural fields, magnitude of total evaporation determination by heat balance method, USSR study		6581
agricultural outlook digest		10684
agricultural prices (periodical)		2191, 10648
agricultural research (periodical)		2271, 10723
index, v.1-3, 1953-55		8287
agricultural situation—		
periodical		2192, 10849
world, 1959		1647
agriculture handbooks		78-81, 1294-95, 3047-48, 4167-69, 5525-27, 7046, 8305-6, 9590, 11620-622, 13720-724, 15300-302
agriculture information bulletins	82-84, 1296-98, 3049-51, 5528-29, 7047, 8307-8	11623, 13725, 15303-306, 17190
American system (talk)		72
Asiatic people's democratic countries, reforms		563
atomic energy research program, progress report		190
aviation application, research and development, conference report		13717
balance sheet, 1959		12657, 15305
bibliography		2288, 10741
index, 1958		2287
census, 1959—		
brief information		15461
enumerators, crew leader's training guide		13852
enumerator's instruction book		13858

# JANUARY-DECEMBER

	Entry
Agriculture—Continued	
census publications, price list	17034
Ceylon, economy	3516
changes ahead (notes used in address)	9600
China—	
agricultural briefs	10237
development, etc.	9188
field management, etc., technical advances	17520
new techniques and production results	14832
principles and practices	10241
production, trade, etc.	16397
socialist reorganization	12856
socialization of industry	6397
classification, Library of Congress	8016
code of Federal regulations	6136, 7712, 7715-16, 8999, 9003
Czechoslovak Academy of Agricultural Sciences, functions, etc.	747, 749
decisions	2285, 10738
developments as seen from Washington (notes used in address)	5524
East European countries, economies, notes	16396
education, summaries of studies	12599
extension work, employees use of Federal penalty mailing privilege	14623
extension work of State and county agencies, donation of federally-owned property presently on loan—	
hearings	17353
report	16095
fair labor standards act interpretative bulletin	1221
farm program—	
addresses	5521, 11612
administration proposal, testimony of Secretary Benson, hearing	7434
committees, elections, amend law, report	14437
message from the President	5810
farm relief and agricultural adjustment acts, compilation	3262
finance outlook, 1959	3034
finance review	13706
supplement	3032
Foreign Agricultural Service, miscellaneous FAS-M series	444-446, 3516-17, 4863-69, 6205-10, 7763-65, 9059-62, 10142, 12696, 16394-395, 17432-433
Foreign Agricultural Service programs and foreign relations (address)	17434
foreign agricultural training, annual summary, 1958	443
foreign agriculture (periodical)	2640, 11179
table of contents, v. 22, 1958	3518
foreign agriculture circulars	2643, 11182
foreign agriculture publications, price list	170333
foreign agriculture reports	448, 3519, 16397
foreign operations review, hearing	15903
foreign trade outlook charts, 1960	17435
free enterprise system (talks)	65, 67
freedom a necessity for progress (address)	4166
freedom and progress for farmers (talks)	60-62, 64, 66, 68, 71, 73, 75
future international meetings, world list	11319
general farm legislation, hearings	17327
generalized types of farming in U.S., national atlas sheet	11606

	Entry
Agriculture—Continued	
great achievements in agriculture (address)	7051
Honan province draft plan to expedite	699
Hunan Province—	
southeastern, geography of hilly regions	12880
tax provisions and procedures	4995
Hungary	729, 1832, 6434, 10277, 12991, 13100, 13168, 14883, 17582
include certain enterprises within definition of small business, hearings	14555
interrelationship and interdependence of industry and agriculture (talk)	69
job of building prosperous, expanding and free agriculture (address)	3046
Latin American republics, economies	7763
laws, compilation	3264
legislation, 85th Congress, reviewing soils, aid to better farming, major agricultural policy question of next 15 years (address)	17178
meteorological service of farms and machine-tractor stations, USSR	871
meteorological stations, chiefs, conferences, USSR	1897
microbiological, development tasks during 1959-65	12980
miscellaneous legislation, hearings	17326
modern mechanization problems (talk)	76
modern mechanization speeded by farm machinery (talk)	77
North Korea, reforms and cooperativization	14830
North Vietnam—	
cooperativization—	
and methods of guaranteeing successful winter-spring harvest, Vietnamese Lao Dong Party Central Committee directive	6373
articles	10309
economic data translations	16527
reforms and cooperativization	14830
development, selected newspaper articles	4990
relationship to industry	10295
outlook—	
charts, 1959	18
digest	2229
Federal and State service	8075
for 1959	1293
for 1959, effect of world situation (address)	1648
partnership with chemical industry (panel discussion)	1286
pioneering research in Agriculture Dept. (talk)	3040
Poland, development, etc.	7765
policy, today's problems, tomorrow's puzzles (address)	37
problems, etc. (address)	13718
production and resource use, prospects for adjustments (address)	1290
program, message from the President, hearings	7509
program, technical cooperation, agreement with Brazil	4079
programs planning, national purpose (notes from statement)	11647
progress (address)	63
progress on various programs (talk)	5522
prospective changes in structure of farming (addresses)	1289

# INDEX, 1959

	Entry
<b>Agriculture—Continued</b>	
prospects in growing economy (address).....	57
protection and survival from radioactive fallout in time of emergency (talk).....	8300
radioisotopes uses, selected references.....	9665, 15419
rapid economic progress, notes used in address).....	113
rapid progress (address).....	3077
research—	
and educational programs to help farmers (address).....	4163
and scientific activity, basic programs, hearing.....	12310
consumers you'll never see, how you can size up (address).....	7020
cooperative enterprise (address).....	11593
improved foods for tomorrow (address).....	52
making the most of our resources (talk).....	5516
perspectives (talk).....	5517
program of USDA (statement).....	11651
research achievement sheets. 3043, 17189	
science in good eating (talk).....	5520
State and Federal programs, role of regional laboratories (talk).....	1285
tomorrow's agriculture, research perspective (address).....	8303
rural development program—	
news.....	2911, 11455
progress, 3d annual report.....	85
Shantung people's communes, 1958 supplementary directives for distribution of work.....	9157
situation (address).....	4165
situation in regard to price support structure (addresses).....	4162, 4164
solid progress in road ahead (address, notes).....	3079
Soviet—	
articles.....	12859
economic aspects, report of U.S. technical study group.....	8334
including crops, implements, and livestock, selected translations.....	12893, 16533
plans to increase use of mineral fertilizers, etc.....	14865
selected translations.....	12898, 17534
State departments, directory, 1959.....	5475
statistical summary.....	2219, 10674
statistics.....	8304
statistics, domestic sugar areas.....	5557
strong capital and credit as key (address).....	7683
Sudan, economy.....	446
taking 1959 farm count, information for enumerator applicants.....	8462
technical advance and migration impact (address).....	17188
technical cooperation achievements of ICA.....	15196
TVA programs, development, 25 years of progress.....	6973
vertical integration effect on livestock industry (remarks).....	4144
vocational, inservice education of teachers, criteria for evaluating statewide programs.....	14595
workers in agricultural subjects, list.....	7046
see also Farmers' cooperative organizations—Farms—also headings beginning Agricultural—Farm.	

<b>Agriculture and Forestry Committee, Senate:</b>	
calendars.....	2465, 10998
hearings, etc.....	1566, 6042-45, 7599-7600, 8875-79, 10021-23, 14546, 17349.

<b>Agriculture and Forestry Committee, Senate—Continued</b>	
investigations and studies, expenses, reports.....	14453, 16060
reports.....	5997, 6012, 6040-41, 7546, 7570, 7597, 8796, 8811, 8845-49, 9944, 9979, 12438-446, 12515, 14437-438, 14445, 14453, 14484, 14501-502, 16045, 16050, 16065.
<b>Agriculture Committee, House:</b>	
calendars.....	2446, 10977
hearings, etc.....	5902-7, 7433-43, 8717-18, 12266-275, 14324-328, 15934-937, 17326-329.
investigations and studies, certain subjects—	
authorization, report.....	4612
authorization, amend, report.....	5887
expenses, report.....	5845
minority reports.....	14261-262
reports.....	5850, 5871, 7374, 7399, 7405, 8648, 8683, 9854, 12187, 12189-190, 12195, 12203, 12223, 14131, 14186, 14261-262, 14292-293, 14320, 15813, 15817-819, 15842, 15850-852, 15854, 15861.
views.....	7405, 8648, 12223
<b>Agriculture Department:</b>	
activity centered around the home (address).....	11613
appropriations, 1960—	
hearings.....	4629, 5909, 7444, 8880, 9894, 14547
law.....	11967
reports.....	7431, 8830, 12116
assistance to seed industry by research, crop and outlook reports, etc. (address).....	11617
centennial of establishment, commission to commemorate, reports.....	4608, 8826
certain functions, restore to REA—	
hearing.....	5926
minority report.....	5874
reports.....	5874, 6011, 7362
veto.....	7499
views.....	5874, 6011
commodity distribution program administration, transfer, hearings.....	10021
employee handbook.....	5525
field staff, foreign service list.....	2950, 11497
filmstrips, list.....	11620
history, activities, etc.....	3620
institutional meat purchase specifications approved—	
fresh beef.....	13691
fresh lamb and mutton.....	13692
fresh pork.....	13693
fresh veal and calf.....	13694
frozen pork.....	13695
general requirements.....	13696
leaflets.....	97-98, 1307-10, 3059-62, 4172-74, 5535-43, 7053, 8316-17, 9606-9, 11627-629, 13727, 15310-313, 17195-197
Library, appropriations, 1960, hearings.....	5909
Library list (series).....	4198, 13742
marketing research reports.....	99-105, 1311-15, 3063-70, 4176-85, 5544-50, 7054-62, 8318-25, 9610-12, 11630-641, 13728-735, 15315-325, 17198-201.
miscellaneous publications.....	106-108, 1316-17, 3071-74, 4186-88, 5551-52, 7063-66, 8326-30, 9613, 11642-646, 15326, 17202-205
officials, list.....	1318

# JANUARY-DECEMBER

	Entry
Agriculture Department—Continued organization and field activities, 1959, directory.....	1294
Peace Food Administrator Office, establish, report.....	14436
pioneering laboratories, their 1st birthday (address).....	59
pioneering research (talk).....	3040
production research reports.....	111-
112, 1321, 4190-91, 5553, 7067, 8332, 9617, 13739-740, 17207-208	
program aid (PA) series.....	109, 1319-
20, 3075-76, 4189, 8331, 9614-16, 13737-738, 15327, 17206	
public land functions, reorganization plan no. 1 of 1959—disapproval—report.....	9885
views.....	9885
hearing.....	9911
message from the President.....	7341
report.....	9888
views.....	9888
public relations responsibilities of Agriculture Dept. administrators (address).....	16484
publications—	
and motion pictures, monthly list.....	2679, 11218
awareness and use among Illinois farmers, survey.....	7869
research program, 1958 summary.....	7870
regulations under tobacco inspection act of 1935.....	15272
releases.....	2287, 10740
report, 1958.....	9619
research program—	
hearing.....	12310
organization, coordination, etc.....	108
statement.....	11651
selected charts available, catalog.....	9613
specialized positions, examination announcement.....	13882
States marketing service programs.....	11561
statistical bulletins.....	114, 1322, 3080, 4192-94, 5555-58, 8336-40, 9620-21, 11653-654, 17210-211
technical bulletins.....	115, 3081-83, 4195-97, 5559, 7068-71, 8341, 13741, 15330-334
USDA, employee news bulletin.....	2286, 10739
Agromyzid leaf miners, <i>see</i> Flies.	
Agua Caliente Reservation, <i>see</i> Palm Springs Reservation.	
Ahoy skipper, here's your Coast Guard Auxiliary.....	1500
AIB series.....	82-84, 1296-98, 3049-51, 7047, 8307-8, 11623, 13725, 15303-306, 17190
Aid to dependent children.....	9437
Aids to local enterprise (address).....	8492
Aids to navigation, <i>see</i> Navigation.	
Alken, George D., report on 2d meeting of Canada-United States parliamentary conference, Montreal, Canada, June 25-28, 1959.....	16197
Ailerons:	
bellows-actuated split-flap on 60° delta wing, free-flight measurements at Mach numbers between 0.8 and 1.8.....	1040
flap-type, effectiveness and loading characteristics of lateral controls.....	10481
rolling effectiveness, effects of tail damping and wing-tail interference.....	16845
spoller-type, data.....	1037
X-1E, hinge-movement characteristics at transonic speeds, investigation.....	16819

	Entry
Alliuginae Atoll, radiobiological studies of fish.....	3169
Air:	
air helium simulation and hypersonic approximations.....	16889
air we live in, health effects of air pollution.....	8188
bacterial content, methodology of preparing filters from gelatin foam for investigation, USSR studies.....	5038
bacteriological investigations with Rechmensky-type apparatuses, USSR practical evaluation.....	14948
bacteriological studies, new device for making in USSR.....	1909
chloride and hydrochloric acid aerosol determination by turbidometric method, USSR studies.....	7951
coolant for return-flow turbine rotor blade, analysis of flow and pressure requirements.....	6722
disinfection by means of disinfective aerosols, studies.....	5130
filtrable forms of bacteria, USSR studies.....	5022
high temperature, radiative properties.....	8344
injections, effects on heat transfer to blunt bodies.....	13423
load distributions on flapped wing resulting from leading-edge and trailing-edge blowing.....	1073
microflora, detection with aerocentrifuge in lying-in hospitals, USSR study.....	5037
particles, prognosis of trajectories, USSR problem.....	1902
radioactivity measurements in 1957.....	1129
radionuclides, maximum permissible concentrations for occupational exposure.....	9396
rarefied, determination of specific surface of powder-form bodies on basis of resistance to filtration, USSR studies.....	1907
submarines, purification, feasibility of using algae.....	1125
temperature, yearly amplitudes with altitudes over southern USSR, properties of changes.....	1901
thermodynamic properties.....	13440
<i>see also</i> Air pollution—Atmosphere—Atmospheric pressure.	
Air almanacs, <i>see</i> Almanacs.	
Air bases, Spanish, inspection, report.....	14330
Air blasts, <i>see</i> Rock bursts.	
Air-borne target simulator for use in optical-sight tracking studies.....	955
Air carriers:	
airline management, problems of financing, traffic, etc. (remarks).....	24513
airline pass privileges, hearing.....	8737
airline transport pilot rating, civil aeronautics manual.....	4796
alcoholic beverages on airlines, prohibit serving, hearings.....	14341
cargo compartment classification E for all cargo operations, civil air regulations amendment.....	8982
cargo service problems (address).....	11816
commercial operator certification and operation rules, civil air regulations amendments.....	3447, 12633
Federal aviation act of 1958, amend, hearing.....	8737
financial statistics, quarterly report.....	2382, 10913
free or reduced rates for retired employees and families—	
hearing.....	8737
reports.....	8705, 9860

# INDEX, 1959

	Entry
<b>Air carriers—Continued</b>	
general operation rules, civil air regulations amendments_	17397
history of Government subsidies (address)_____	4365
irregular and off route rules—	
civil aeronautics manual_____	221, 6118, 7690, 14611
civil air regulations amend- ments_____	3445, 7693, 14612, 17396
operations, use of average, assumed, and estimated weights, civil air regulations amendment_	3443-45
reequipement financing, facilitate—	
hearing_____	7628
law_____	11968
reports_____	7560, 8701
scheduled helicopter certification and operation rules—	
civil aeronautics manual_____	16290
civil air regulations amend- ments_____	7694, 17398
scheduled interstate certification and operation rules, civil air regulations amendments_____	3443, 7692, 16302-303
scheduled operations outside conti- nental U.S., certification and operation rules, civil air reg- ulations amendments_____	3444, 4798, 16304-305
scheduled U.S.-Alaska and Intra- Alaska operations, civil air reg- ulations amendment_____	4798
taxi, certification and operation rules—	
civil air regulations_____	4797
postponement of effective date, civil air regulations amend- ment_____	12634
traffic statistics, monthly report—	2381, 10912
transatlantic charter trips, CAB regulations_____	9731
transport services, agreement with—	
Brazil_____	4089
Canada_____	9519
Indonesia_____	17118
Japan_____	5427
Mexico_____	15217
transportation and management courses offered in colleges and universities, list_____	1595
transportation of mail, brief his- tory_____	1142
United States—	
international routes, map_____	7231
local service routes, certificated, map_____	7232
overseas routes, map_____	7231
territorial routes, map_____	7231
trunkline routes, certificated, map_____	7233
use for transportation of mail other than air mail—	
hearings_____	14574
report_____	16081
<b>Air compressors:</b>	
axial-flow—	
experimental 15-stage, effect of inlet-annulus blockage on over- all performance and stall char- acteristics_____	5232
five-stage research, with trans- sonic rotors—	
blade-element performance_____	5247
design_____	5233
interstage data and individual stage performance charac- teristics_____	5241
over-all performance_____	5234
high-performance transonic inlet rotor, detailed blade-element performance_____	5255

	Entry
<b>Air compressors—Continued</b>	
axial-flow—continued	
inlet-stage operating at transonic relative inlet Mach numbers_	2034, 3900
rotor- and stator-blade modifica- tions effect on surge perform- ance_____	965, 968
turbojet engine, effect of uneven air-flow distribution to twin inlets_____	3886
installation and design, engineer- ing manual_____	8960
two-stage counterrotating—	
design and performance of 1st stage_____	6714
design of 2d-stage rotor and per- formance_____	6717
first-rotor blade-element perform- ance_____	6716
performance with modified 2d- stage rotor_____	6724
<b>Air conditioning:</b>	
equipment—	
design, rating conditions, mili- tary standard_____	14588
facts for industry, 1958_____	15470
field type, rating, military stand- ard_____	4769
swine housing, estimating cooling loads_____	13710
see also Cooling systems.	
<b>Air controlman, see</b> Airport-control tower operators.	
<b>Air Coordinating Committee, report,</b> 1958_____	4199
<b>Air crews, see</b> Flight crews.	
<b>Air-cured tobacco, see</b> Tobacco.	
<b>Air defense controller, intercept con- troller, AF manual_____</b>	7098
<b>Air defenses rural localities, USSR_</b>	16543
<b>Air-drying lumber to increase mill profits_____</b>	3557
<b>Air ejectors:</b>	
cooling, cylindrical, air-flow and thrust characteristics_____	2026
cooling, flight evaluation_____	15045
single-stage annular, experimental operating performance_____	16873
<b>Air filters, see</b> Filters and filtration.	
<b>Air flow, see</b> Flow.	
<b>Air Force:</b>	
account structure and codes, man- ual_____	137, 4226, 5586, 7696-97
air base master planning manual_	5580-81
Air Force surveys in geophysics_	146
Air Force visual aid series_	5565, 8345
Air Staff, organization chart_	2293, 10745
aircraft and guided missiles equip- ment, technical information file, list, amendment_____	1360
airman, official journal_____	2298, 10750
basic research_____	4259
benefits for next of kin and depend- ents of deceased and missing Air Force members, pamphlet_	4229
budget, manual_____	1347, 4228
C-E publications and training, manual_____	8355
careers in military law_____	16635
civilian personnel—	
Air Force manual_____	4209
management activities, evalua- tion guide manual, transmit- tal sheets_____	128, 8350
travel, manual change_____	4209
communications - electronics doc- trine—	
basic concepts, missions and func- tions, manual_____	3099-3100
manuals_____	1338-40, 3099-3104, 4220-23, 7695, 8355-56, 11668-669, 15345-346
comptroller, functions and respon- sibilities, Air Force manual_	1345



# JANUARY-DECEMBER

	Entry
<b>Air Force—Continued</b>	
comptroller, manual.....	137 1344-46,
4226-27, 5586, 7096-97, 8359-60	
correspondence, manual.....	1330, 5567-68
dental laboratory technicians' manual.....	5585
directory of addresses, continental U.S. and Canada.....	3088, 4204
employees wage determination, Army-Air Force Wage Board organization and policies.....	885
enlisted and officer personnel, aptitude levels in manpower pool, appendix.....	155
enlisted personnel, manual.....	127,
3091-92, 8349	
enlistment and reenlistment, manual, changes.....	3091-92, 8349
film directory, manual.....	5583
flexible airfield pavement evaluation engineering and design manual.....	12610
flight planning document—	
inserts.....	1361, 13773, 15355-356
revisions.....	1362,
3120, 4266-68, 7116-20, 8366-68,	
9640, 11679-682, 13774-776,	
15353-354, 17229-231	
foil pack meal guide, including recipes and associated equipment.....	11687
function, classification and organization nomenclature, manual changes.....	124, 4205
Government publications, price list, ground electronic equipment, reliability prediction and test results.....	3119
ground safety, manual.....	3090
health and medical training, unit training standard, AF manual.....	5571
hospitals, infirmaries, and dispensaries, medical facilities, electrical requirements, engineering manual.....	8959
inspectors manual.....	1341
job requirements, rater tendencies in estimating qualifications required for tasks.....	17233
jobs, evaluate qualifications by ratings at task level.....	15358
laboratories, automatic data recording devices study.....	15359
major air commands.....	7109
management analysis, manual.....	1344
management course for supervisors, pamphlet series available from Superintendent of Documents.....	10559
mechanics job proficiency, qualifications data analysis.....	9643
medical facilities, professional book and journal list, AF pamphlet.....	7105
medical treatment facilities, administration, manual.....	15348
message preparation instructions, manual.....	123
military personnel—	
Air Force manuals.....	125-126, 1331,
4206-8, 5569, 7080-81, 8347-48	
Officer records system, manual.....	125,
5569, 7080	
pay transactions, manual.....	8363
mission agreement with—	
Bolivia.....	9516
Colombia.....	9517
Ecuador.....	15206
Haiti.....	8249
Nicaragua.....	17123
Paraguay.....	10601
nominations 85th Cong. 2d sess., index.....	9935
officer personnel, manual.....	1332-33, 7082

	Entry
<b>Air Force—Continued</b>	
officers—	
appointment, manual.....	1333, 7082
assignment, manual.....	1331
classification manual.....	1332
educational achievement, methods of testing and test results, effectiveness, long-term prediction from aptitude tests.....	3122
NCO, career airman.....	13747
personality effectiveness, assessment study.....	5606-7, 9644-46
promotion opportunity to grade of major, improve—	
hearing.....	16193
law.....	15700
reports.....	12162, 12202, 14540
psychological assessment and research study of personalities, errata.....	4269
trait ratings use in assessment of captains.....	5603
variables contributing to procurement panel scores.....	13779
organizational and field maintenance, manual.....	11665
Pacific, PACAF basic bibliographies.....	1355-57,
3116-17, 5606-1, 7111-14, 8365,	
9634-38, 11676-77, 17227-228	
personnel—	
casualty services, manual.....	3089,
7079, 8346	
dependents and housing report, forecast on movement, pamphlet.....	140, 4234
dependents information on Spain.....	139
flying status, aeronautical ratings, designations and parachute jump status.....	126
interest measures, stability and validation for selection and classification.....	13778
manual.....	3089, 7079, 8346
marriage to aliens, requirements and procedures, personal affairs guide, pamphlet.....	4230
pamphlet.....	4229
peer ratings consistency and variability.....	9646A
reading guide.....	3110
retention handbook for supervisors.....	13752
school and job validation of selection measures for air traffic control training.....	8370
use of decision index in assigning.....	8369
visual presentation of information, data and design recommendations.....	7121
personnel services, pamphlets.....	139-
140, 3109-10, 4230-35, 17220	
procurement and supply activity numbers, manual.....	5589
procurement instruction.....	2291, 10743
radio facility charts.....	2307-
12, 10757, 10760-761	
real property accountable records, manual.....	3098, 4219, 5582
recipes, manual.....	135, 9628
records management, manual.....	138, 5588
recruits, prediction of training and proficiency criteria from Armed Forces selection tests.....	17232
register—	
departmental edition.....	4131-32
document edition.....	4452-53
regular, enlistment and reenlistment manual, change.....	127
reserve forces, manual.....	5570, 7083
retirement guide.....	17220
space probes, 1958, summary.....	13436

# INDEX, 1959

	Entry
<b>Air Force—Continued</b>	
stock list, medical materiel items to be added, pamphlets.....	4254-55
supply and/or maintenance, manuals.....	132, 1335-37, 3093-96, 4212-15, 5372-77, 7084-91, 8351-54, 9627, 11665-667, 13744-746, 15337-348, 17215-218.
supply system, commanders management handbook.....	15351
technical jobs, spatial abilities and selected elements.....	7124
training standard, manuals.....	4210-11, 5571
transonic-flight tests of XS-1 airplane, results obtained during extension.....	1023
transportation of property and personnel, manuals.....	4216-17, 7092
warrant officers and airman classification manual, changes.....	4206-7, 8347
weather station index, change.....	17503
working leaders—	
developing workers abilities—	
identifying training needs.....	4241
inducting new worker.....	4240
pattern for instruction.....	4242
practicing instruction techniques (workshop).....	4243
improving personal relationships—	
application of problem solving techniques.....	4249
how differences in workers affect job.....	4247
leadership ability development.....	4250
understanding workers.....	4248
management course—	
conferee's workbook.....	1334
pamphlets.....	4236-50
organizing your job, work assignments.....	4238-39
place in Air Force.....	4236-37
simplifying work—	
appraisal of methods.....	4244
development and application of better methods (workshop).....	4246
improvement of methods.....	4245
written communications, preparation, manual.....	5567-68
see also Armed Forces—Overseas service.	
<b>Air Force Academy, Colorado:</b>	
at the ramparts, countdown for first 4 years.....	11656
cadet appointments, what you should know.....	5561
catalog, 1959-60.....	8342
educational program, general information.....	5560
medal commemorating establishment—	
law.....	9785
reports.....	8666, 8829
report of board of visitors, 1959.....	11657
<b>Air Force Cambridge Research Center:</b>	
Geophysics Research Directorate—	
geophysical research papers.....	1352-53, 5596, 13749, 17224
GRD research notes.....	1354, 3115, 4262-63, 5597-98, 7106-8, 9633, 11671-674.
surveys in geophysics.....	1350-51, 3114, 17221
technical notes.....	117-118, 1325-27, 3084-85, 4200-1, 5562-63, 7072-76, 8343, 9622, 11658-661, 17212.
technical reports.....	119-120, 1328-29, 5564, 11662, 17213
Air Force Cross, designate, report.....	4585

	Entry
<b>Air Force Department:</b>	
administrative orders, manual.....	1330
administrative practices, manuals.....	123, 3087-88, 4203-4
AFCRC technical notes.....	117-118, 1325-27, 3084-85, 4200-1, 5562-63, 7072-76, 8343, 9622, 11658-661, 17212.
AFCRC technical reports.....	119-120, 1328-29, 5564, 11662, 17213
AFMDC technical note.....	15336
AFMDC technical report.....	3086
AFOSR technical notes.....	4202.
AFOSR technical reports.....	7077, 9623, 11663
AFSWC technical report series.....	8344
Air Force manuals.....	121-135, 1330-49, 3087-3108, 4203-28, 5566-89, 7079-98, 8346-63, 9621-28, 11664-669, 13743-746, 15337-348, 17214-219.
Air Force pamphlets.....	139-145, 3109-13, 4229-56, 5590-94, 7099-7105, 8364, 9629-30, 11670, 11678, 13747, 15349-351, 17220
appropriations, 1960—	
military construction, hearings.....	9896
proposed provision.....	12337
ARDC technical reports.....	13748
Assistant Secretary, nomination of—	
Charyk, Joseph V., hearing.....	12525
Taylor, Philip B., hearings.....	7606
careers for civilians.....	4260
Geophysics Research Directorate—	
geophysical research papers.....	1352-53, 5596, 13749, 17224
research notes.....	1354, 3115, 4262-63, 5597-98, 7106-8, 9633, 11671-674.
surveys in geophysics.....	1350-51, 3114, 17221
information availability to GAO—	
hearings.....	1547
report.....	5873
views.....	5873
information services fact sheet.....	7109
Inspector General, manual.....	1341
Judge Advocate General, manual.....	5584.
8358, 15347	
land conveyance to Sacramento County, Calif.—	
law.....	15675
reports.....	12244, 16124
publications and forms distribution, manual.....	121
publications, manual.....	121
RADC technical notes.....	3118-19, 9639
semiannual report.....	7662
specifications bulletins.....	151-152, 1358-60, 2314, 4264, 5602, 7115, 10762
technical report AFOSR-TR series.....	7078
technical reports, AFPTC-TR series.....	153-154, 4265
translation series.....	13753-772
WADC technical notes.....	155-156, 3121-23, 4269-70, 5603-5, 8369-70, 9642-43, 11683-685, 15367-358, 17232-233.
WADC technical reports.....	1363-65, 3124-29, 4271-78, 5606-9, 7121-24, 8371-73, 9644-47, 11686-693, 13777-779, 15359-368, 17234-237.
Air Force hospitals, approved special medical administrative systems and services, AF pamphlet.....	5594
Air Force Industrial Fund, airlift service, Air Force manual.....	1346, 4227, 8360
Air Force installations, see Installations (military).	
Air Force Medical Service: digest.....	2316A, 10763
report, July 1, 1957-June 30, 1958.....	15369

	Entry
Air Force Missile Development Center, Holloman Air Force Base, N. Mex.:	
Aeromedical Field Laboratory administrative history, 1951-58.	1324
balloon operations, contributions to research and development.	5595
space biology and biodynamics research.	5599
technical note.	15336
technical report.	3086
Air Force missions, <i>see</i> Military missions.	
Air Force Office of Scientific Research:	
technical documentary reports, quarterly index.	2306
technical notes.	4202, 7077, 9623, 11663
Air Force Personnel and Training Research Center, technical reports, AFPTRC-TR series.	153-154, 4265
Air Force Reserve:	
air reservist (periodical).	2292, 10744
personnel accounting, manual.	3107, 8361
<i>see also</i> Pay, allowances, etc.—Reserve components of Armed Forces.	
Air Force Reserve Officers Training Corps:	
air reservist (periodical).	2292
foundations of air power, textbook.	4261
members, make eligible for burial in national cemeteries—	
law.	14093
reports.	9982, 14310
political geography, military aspects, textbook.	13751
students, light plane training, evaluation.	11685
summer training, manual.	5570, 7083
validity of AFOQT for prediction of student-officer success in observer training.	3123
<i>see also</i> Pay, allowances, etc.	
Air Force Special Weapons Center, technical report.	8344
Air Force Stock Fund, procedures in support, manual, changes.	8359
Air Force supplies, <i>see</i> Aeronautical supplies—Military supplies.	
Air frames, <i>see</i> Airframes.	
Air inlets (aircraft):	
auxiliary—	
immersed in fuselage boundary layer, internal performance.	6702
immersed in turbulent boundary layer, internal performance.	6704
mass-flow and pressure recovery, transonic investigation.	13428
supplying secondary air flow to ejector exhaust nozzles, investigation.	1004
axial symmetric nose inlets, performance characteristics at Mach number 3.85.	6695
axisymmetric 2-cone and isentropic nose, performance characteristics.	16789
compressor and afterburning combined ammonia injection, turbojet-engine thrust augmentation altitude tests.	6697
diffuser-exit total pressure profiles for side-inlet model at Mach no. 3.05, methods of improving, investigation.	6710
double-cone—	
drag data for 16-inch diameter ram-jet engine in free flight at Mach numbers 0.7 to 1.8.	980
performance with or without shroud at below-design Mach numbers.	6708

	Entry
Air inlets (aircraft)—Continued	
effects of lip sweep on internal flow characteristics of semielliptical air inlet with inlet-lip stagger of 30° at transonic speed.	16857
exhaust scavenged in Mach 3.1 supersonic tunnel with 6.6-inch-diameter scoop.	3895
half-conical side inlets, effect of wedge-type boundary layer diverters on performance.	16780
installation on zero-lift drag of 60° delta wing-body configuration from flight tests.	1051
lip bluntness and shape effect on drag and pressure recovery.	16825
normal shock, cowl pressure drag at supersonic speeds, change with mass-flow ratio.	16755
nose—	
compressive flow about axially symmetric isentropic spikes at Mach number 3.85.	16782
force and pressure characteristics.	5225
lip shape effect and method for optimizing engine-inlet combinations.	16747
modified, multijet, water-based aircraft, hydrodynamic investigation.	16822
supersonic at Mach number 3.5, performance of boundary layer separation.	16772
nose-boom airspeed installations of 17 airplanes, static-pressure error calibrations.	3906
ramp-type scoop, located on top or bottom of body of revolution, angle-of-attack supersonic performance of configuration.	16773
rectangular supersonic scoop, with swept sides designed for low drag at Mach number 2.7, investigation.	1028
scoop—	
boundary layer removal system.	16770
conical supersonic, internal corner fillets effects on pressure recovery-mass characteristics.	969
improving diffuser-exit total-pressure profiles for side-inlet model at Mach number 1.91, methods evaluation.	5242
located at maximum-body-diameter station at Mach numbers from 0.8 to 1.8, flight determination of drag and pressure recovery.	1050
wing body wave drag, application of Tchebichef form of harmonic analysis to calculate zero lift.	17723
secondary-air entry, turbojet combustor, high altitude performance.	13399
semiangle movable-cone variable-geometry ram-jet inlet at free-jet Mach numbers 1.62, 2.00, 2.53, and 3.05, total-pressure-recovery characteristics.	5249
side—	
internal boundary layer-control systems at Mach number 2.96, investigation.	5236
variable-internal contraction, pressure recovery at Mach numbers between 1.42 and 2.44.	16753
wedge-type, boundary layer diverters at supersonic speeds.	16774
simulated wing-root inlets, investigation at Mach number 1.9.	988
supersonic—	
adjustable bypass in combination with J34 turbojet engine, dynamics.	5239

# INDEX, 1959

	Entry	Entry
Air inlets (aircraft)—Continued		Air lines, <i>see</i> Air carriers.
supersonic—continued		Air mail, transportation, brief history— 1142
aerodynamic control for optimum performance— 6711		Air National Guard:
bypass-duct design for use with— 6737		air reservist (periodical) 2292, 10744
comparison of effect of turbojet engine and 3 cold-flow configurations on stability— 3902		register, Jan. 1, 1959— 6804
design concept to reduce flow distortion at angle of attack— 3904		<i>see also</i> Pay, allowances, etc.
in combination with J34 turbojet engine, continuous normal-shock positioning control— 1003		Air navigation:
ram-jet engines, 6.5 inch-diameter, preflight tests and flight performance— 3911		dead reckoning computers, Air Force manual— 11664
ramp, with internal boundary-layer scoop, performance— 985		Federal role, hearings— 3324
scoop, performance— 13390		financing of services in Greenland and Faroe Islands and Iceland, agreement— 9512
scoop, square-shaped, mounted above high 45° sweptback wing and body, transonic investigation of internal flow— 13425		heliport day marker, technical standard order— 10099
some aspects of stability— 6712		navigator (periodical)— 10755
spilling excess flow by means of bow shock, conical shocks, or bypass, performance comparison— 5230		report of operation of Airways Modernization Board— 4045
stability at Mach 1.91 with air injection and suction— 16832		sight reduction tables—
2-dimensional, pressure recovery at Mach number of 2.01, investigation— 15062		latitudes and declinations— 1724
use of subsonic diffuser as control parameter— 16793		stars— 4942
supersonic diffusers at high Mach numbers, preliminary investigations— 16769		TACAN, short range facilities, establishment, agreement with Canada— 9522
symmetrical, circular, internal compression inlet, study— 13385		VORTAC, short distance system, international symposium— 1323
top-inlet configuration, effect of fuselage fences on angle-of-attacks supersonic performance— 991		Air navigation equipment, <i>see</i> Aeronautical supplies.
total-pressure recovery and drag of auxiliary inlets at transonic speeds— 16867		Air operations meeting, Arcadia, Calif., Mar. 1959— 12723
transonic, axial-flow research compressor—		Air pilots, <i>see</i> Aviators.
aerodynamic design— 975		Air pollution:
aerodynamic design modification and performance prediction— 996		control problems in cities, USSR study— 7949
individual stage performance characteristics— 982		control research and technical assistance, extend act—
over-all performance— analysis— 977, 994		law— 15729
rotating stall, and blade vibration at low and intermediate speeds— 1001		reports— 15810, 15928
underslung scoop, characteristics of canard-type missile configuration— 970		Federal air pollution control act, extend duration—
uneven air-flow distribution to twin inlets of axial-flow turbojet engine, effect— 3886		hearings— 12296
use of main-inlet bypass to supply airflow to ejector exhaust nozzles at supersonic speed— 5243		report— 6032
variable-area auxiliary air-intake system tested at Mach numbers from 0 to 1.3— 10468		health effects, research in control— 8188
variable-geometry annular cascade-type inlet at Mach numbers 1.9 and 3.05— 16791		how measured and studied— 6917
variable-geometry, having 2-dimensional compression surfaces, investigation at Mach numbers 1.41, 1.61, and 1.82— 5250		lead sulphide concentration in air, hygienic basis for protection, USSR study— 12975
variable-geometry in combination with J34 turbojet engine, shock-positioning control systems, investigation— 989		Leningrad, sulfur dioxide concentration, seasonal variations and meteorologic factors— 7950
variable guide vanes in turbojet engine, characteristics— 990		measurements of national air sampling network, suspended particulate samples, analysis, error— 1148, 6909
variable primary-air admission turbojet combustor, high altitude performance— 13402		medical research progress— 4027
		method of selecting dust samples with particle sizes less than 5 microns, USSR studies— 6599
		national conference, 1958, highlights— 4022
		Air Pollution, National Conference on, <i>see</i> National Conference on Air Pollution.
		Air power:
		foundations of, AFROTC textbook, improvement by military and civilian working together, Air Force pamphlets— 4236-50
		taming of blue and beyond, Air Force pamphlet— 15349
		Air preheaters, <i>see</i> Heaters.
		Air raid shelters:
		fallout protection, building plans— 11829
		national plan— 4369
		Air raids:
		defense missiles, briefing, hearing, warning and control system, establishment, agreement with Canada— 9515
		Air receivers, installation and design, engineering manual— 8960
		Air Research and Development Command:
		ARDC production design handbook— 13748



# JANUARY-DECEMBER

Entry	Entry
Air Research and Development Command—Continued	
career opportunities, science, engineering, administration, etc.	147-148
releases	2316
technical report TR series	13748
Air reservist (periodical)	2292, 10744
Air Route Traffic Control Center, television, closed-circuit standard system for ARTC sector coordination, evaluation	4806
Air routes, see Airways.	
Air safety, see Safety of life.	
Air samplers, spacing effect on concentration data analyses	5598
Air scoops:	
internal boundary layer, performance of supersonic ramp inlet	985
mass-flow and pressure recovery of auxiliary air inlets, transonic investigation	13428
supersonic—	
performance	13390
square-shaped, mounted above high 45° sweptback wing and body, transonic investigation of internal flow	13425
variable-area auxiliary air scoop in combination with fixed-area nose inlet tested at Mach numbers from 0 to 1.3	10468
Air seasoning, see Lumber.	
Air service, see Air carriers.	
Air slots, see Slots.	
Air speed:	
analysis data from 4-engine transport airplane operating over northwestern U.S.—Alaska route	5265
data from turboprop transport operating over Eastern U.S., analysis	16881
gliding aircraft, factor in ability to position for landing on 5,000-foot runway	6785
helicopter performance at high tip-speed ratios, rotor theory	16910
hinge-movement characteristics of X-1E aileron	16819
hypersonic flight, aerodynamic heating of rocket-powered research vehicles	17728
hypersonic speed, surface pressure for delta wings at angle of attack	9380
low, characteristics of 35° swept-wing airplane equipped with area-suction ejector flap and wing leading-edge devices, flight tests	958
low impact, crushable structures for acceleration protection of occupants of vehicles, investigation	17757
minimum approach speed for carrier-type landings of swept-wing jet fighter airplane, factors affecting	16860
nose-boom installations, of 17 airplanes, static-pressure error calibrations	3906
ram-jet-engine flight Mach number control, application of oblique-shock sensing system	6707
subsonic—	
aerodynamic forces and moments on missile model during simulated launching from unswept, sweptback, modified delta wing fuselage combinations at zero sideslip	10485
aerodynamic forces and moments on 2 delta wings of aspect ratios 2 and 4 oscillating about midchord, measurements	1038

Entry	Entry
Air speed—Continued	
subsonic—continued	
airfoils oscillating in pitch, effects of angle of attack and airfoil profile on 2-dimensional flutter derivatives	953
blunt bodies, static, oscillatory and free-body tests	6763
cambered-delta-wing model static stability characteristics	1056
lateral control, etc. of spoiler-slot-deflector configuration on 35° sweptback wing	16848
wind-tunnel investigation to determine aerodynamic characteristics in steady roll of model	3910
wing fences and tail on longitudinal characteristics of 63° swept-wing and fuselage combination	16758
subsonic and supersonic—	
effect of leading-edge sweepback on lift, drag, and pitching moment of thin wings	956
investigation of tailless fighter plane, effects of external fuel tanks and rocket packets on drag	17722
nose-boom pressure installations for aerodynamic compensation of error due to position and angle of attack	13432
rolling effectiveness and drag of 3 spoiler controls, free-flight investigation	13417
thrust characteristics of convergent-divergent nozzles	6700
wing-body combinations employing low aspect ratio, effects of simulated skin wrinkles	16744
subsonic and transonic, 3-dimensional oscillating forces based on wind-tunnel measurements, discussion	16807
supersonic—	
aerodynamic characteristics of low-drag aircraft configuration having arrow wing of aspect ratio 1.86 and body of fineness ratio 20	10484
ballistic missiles entering earth's surface, study of motion and aerodynamic heating	6682
boundary layer transition at supersonic speeds	16792
boundary-layer transition in flight, techniques for detecting	15075
effect of distributed 3-dimensional roughness on boundary layer transition	17736
effect of jet Mach number and divergence angle of nozzle	1045
influence of body cross-sectional shape on lifting efficiency of wing-body combinations	1060
performance of wedge-type boundary layer diverters for side inlets	16774
properties of wing and half-body arrangements	16759
rolling moments caused by wing-tail interference for missiles, estimating	952
transonic—	
aerodynamic characteristics of wings	1026
axially symmetric flow over steps with comparisons of estimated and experimental drag results	16760
Convair XF-92A delta-wing airplane at low lift, wing pressure distributions	1020



# INDEX, 1959

Entry	Entry	Entry
Air speed—Continued		
transonic—continued		
directional-stability data for airplane-like configurations from rocket tests	17726	
drag coefficients of boattail body of revolution with simulated turbojet exhaust issuing at base from conical short length ejectors, free-flight investigation	1058	
effects of inlet-lip sweep on internal-flow characteristics of semielliptical air inlet with inlet-lip stagger of 30°, investigation	16857	
flight tests of Air Force X-8-1 airplane, results obtained during extension	1023	
heated propulsive jet effects on drag characteristics of related series of afterbodies	13413	
jet control on 80° delta-wing missile, wind-tunnel investigation	1049	
lift and drag of Bell X-5 airplane in 45° sweptback configuration	16800	
longitudinal aerodynamic characteristics of model with unswept wing and sweptback horizontal tail	16820	
pressure distribution for bumpy and indented mid-sections of parabolic-arc body	3927	
pressure distributions over wedge and circular-arc airfoil sections	13448	
steady state aerodynamic loading characteristics of 45° sweptback wing	16837	
sting-support effects on drag and comparison with jet effects, experimental investigation	2018	
swept-wing configuration, effect of negative dihedral of horizontal tail on longitudinal and lateral stability	1052	
total-pressure recovery and drag characteristics of auxiliary inlets	16867	
wing-body-drag theory	1029	
wing taper ratio and low horizontal tail position effects on longitudinal stability of 45° sweptback wing-body combination	1059	
transonic and supersonic—		
effects of some leading-edge modifications, etc., on low-lift drag	3913	
summary of pitch-damping derivatives of complete airplane and missile configurations as measured in flight	3909	
Air strips, <i>see</i> Runways (aeronautics).		
Air terminals, <i>see</i> Terminals (transportation).		
Air traffic:		
activity, Federal airways system, summary, 1958	3449, 8984	
commercial pattern, 1958	1612, 12623	
control—		
and accident investigation (talk)	15498	
contractions used by FAA, etc., manual	17238	
developments (address)	8983	
enroute flow control effects on terminal system performance, study	17235	
Air traffic—Continued		
control—continued		
evaluation of DuMont SRD-1 bright radar display equipment	4805	
procedures for civil jet aircraft, preliminary report on simulation	4807	
radar control procedures, manual, revised pages	14614	
simulation tests	7698	
terms, glossary	6119	
training, school and job validation of personnel selection measures	8370	
VOLSCAN model GSN-3X (XD-1), preliminary operational evaluation	1620	
control operator, non-radar/radar, Air Force, on-the-job training package	15352	
high-altitude aircraft, simulation tests of horizontal display for control	6122	
management, some abc's	16309	
management system, law, comparative print	7627	
report of operation of Airways Moderation Board	4045	
rules, altimeter setting, civil air regulations, amendment	1480	
rules, civil air regulations amendment	3448, 7695	
Air traffic control-tower operators, <i>see</i> Airport-control tower operators.		
Air Traffic Management Bureau:		
manual	7688, 15369A	17238
service A weather schedules, manual		7688
service O weather schedules, manual		15369A
Air Training Command, ATC manual		9631
Air transportation, <i>see</i> Aeronautics—Air carriers—Transportation.		
Air University:		
periodical index	2294	10746
quarterly review	2295	10747
Airborne ordnance, naval, textbook		6850
Airborne radiometric surveying, <i>see</i> Aerial prospecting.		
Airborne reconnaissance, <i>see</i> Aerial prospecting.		
Airborne training, <i>see</i> Military education.		
Aircraft, <i>see</i> Air carriers.		
Aircraft:		
aerodynamics, translation		13753
aircraft accident and maintenance review	2296	10748
aircraft and aircraft engines, facts for industry	2371	10902
aircraft and bird collisions, Midway Islands, investigations 1957-58		14677
airworthiness—		
altimeters, general maintenance		4801
alert bulletin		2514
CAA airworthiness directive		12631
engines, C.A. manual		11048
FAA airworthiness directive, regulations of administrator, revised pages		10097
flight operations and airworthiness release		2516
limited category, civil aeronautics manual		16207
restricted category, civil aeronautics manual		16286
Alaskan, certificated, accident statistics		11822
altitude errors due to static-pressure source		13432

# JANUARY-DECEMBER

	Entry		Entry
Aircraft—Continued		Aircraft—Continued	
ARDC production design handbook	13748	control—continued	
atomic engines in aviation, appli-	4258	spring-mounted surfaces, possibi-	
cation		lity of simplifying missile guid-	
carbon monoxide detection and		ance systems by use	6691
control, military standard	10067	surface, spoiler, and jet, on 80°	
certification, identification, etc.		delta-wing missile, free flight	
civil aeronautics manual	12630, 16281	investigation at Mach numbers	
civil air regulations amend-		between 0.5 and 1.7 of zero-	
ment	16296	lift rolling effectiveness and	
civil, and related commodities, ex-		drag	10482
port licensing	9066	swept-wing transport model,	
civil, United States, statistical		double slotted flaps, investiga-	
study	16310	tion	17747
companies, backlog of orders, facts		35° swept-wing airplane	16809
for industry	2372, 5688, 10903	thrust reversers effect	16899
components, publications, list	9103	tilt-wing vertical-take-off-and-	
configurations		landing model	
developing high lift-drag ratios		flight investigation	2046
at high supersonic speeds	6689	force test investigation	2045
effects on static longitudinal and		control power, effects of various	
directional stability at super-		combinations on helicopter	
sonic Mach numbers below 3	6738	handling qualities during both	
low-drag, having arrow wing of		instrument and visual flight	17738
aspect ratio 1.86 and body of		control-surface flutter derivatives	
fineness ratio 20, supersonic		airfoil, investigation in high-	
aerodynamic characteristics	10484	speed wind tunnel	2021
control		controls	
automatic throttle, in landing		aerodynamically balanced trailing	
approaches, flight investiga-		edge surfaces on aspect ratio	
tion	5288	2 triangular wing, investiga-	
block diagrams of equations of		tion	6685
perturbed airplane motion	17761	all-movable wings in presence of	
contactor control systems, 2d- and		body at Mach number 1.61,	
3d-order, studies	17749	component tests	1632
effectiveness of flap-type trail-		body and jet reaction data	6746
ing edge controls on trape-		controls and balancing devices	
zoidal wing at Mach numbers		on delta wing, hinge-moment	
of 1.61 and 2.01	15063	characteristics	13427
flap-type alleron, effectiveness and		powered, effects on tracking accu-	
loading characteristics	10481	racy	15051
flicker-type roll control for Mach		side-located stick used with elec-	
no. 6 missile, investigation	9374	tronic control systems in	
horizontal tail use for roll con-		fighter airplane	6749
trol	6739	trailing-edge, on 52.5° swept-	
horn-balanced with unbalancing		wing, rocket-model investiga-	
tab on 55° swept-back wing,		tion of hinge moments	16858
transonic and supersonic char-		distributor for granular materials,	
acteristics	1069	operational characteristics	11596
jet, on 80° delta-wing missile,		dropsondes, USSR studies	3710
wind-tunnel investigation at		electric power production, trans-	
transonic speeds	1049	formation and distribution	13764
lateral, effectiveness of blowing		equipment, Air Force technical in-	
laterally over surfaces of 30°		formation file, list, amendment	1360
and 45° swept wings	17734	fabric condition adjacent to wind-	
lateral, paddle spoilers, flight		shield and elsewhere, inspect	
and wind-tunnel investigation	16878	periodically, general aviation	
lateral, pilot opinion study of re-		alert bulletin	12635
quirements for fighter-type		facts for industry	5690
aircraft	5275	field, employment outlook	9297
lateral, swept-wing fighter to		fixed wing, accident statistics	11822
Mach number of 1.39, flight		foreign, furnish supplies and ser-	
determined characteristics	15056	vices	
longitudinal, low-wing config-		hearing	12525
uration	15047	law	11956
longitudinal, moving-cockpit sim-		reports	4586, 8818
ulator investigation of mini-		ground-cushion phenomenon	
mum tolerable stability	16875	hearings	8753
longitudinal, wing fences effect	15048	reports	9839, 9924
pitch-up problem, evaluating		icing cloud statistics needed in	
aspects	15049	design and operation, data	
power system, ground simulator		measured over U.S. North	
studies of nonlinear linkage	6759	Atlantic, Pacific, and Arctic	
power system, valve friction, stick		Ocean during routine opera-	
friction, flexibility and back-		tions	3925
last effects	948	import-export agreements, civil	
reaction control devices, per-		aeronautics manual	12630
formance investigation	6755	imported, certificates of airworthi-	
recent studies	6742	ness, agreement with—	
right triangular pyramid reentry		Austria	9523
configuration	8080	Federal Republic of Germany	4091
rotating-vane-spoiler roll con-		industry, achievements in research	
trol system with low actuat-		field (addresses)	8057-58
ing forces, free-flight per-		industry, problems, Los Angeles,	
formance	16849	Calif., hearings	3333

# INDEX, 1959

	Entry		Entry
Aircraft—Continued		Aircraft accidents :	
inspection—		aircraft accident and maintenance	
aviation aids summary.....	10096	review.....	2296, 10748
aviation alert bulletin.....	12635	civil air carriers and general avi-	
maintenance aids, supplements.....	2515,	ation, 1958.....	11822
11049		collision problem, probability as-	
maintenance alert bulletins.....	1611,	pects.....	13507
4801		collisions in flight, daytime con-	
standardization of VOR receiver-		spicuity determination of small	
recorder system response.....	4803	airplane in terminal area.....	9480
magnetic compass, type J-2, opera-		fire fighting and rescue manual.....	1246,
tion and organizational main-		11558	
tenance, technical manual.....	11713		
maintenance courses, prediction of		investigations—	
success.....	1242	and air traffic control (address).....	15498
Northrop F-89 powerplant, fire-		avenue to aviation safety (ad-	
extinguishing studies.....	4810	dress).....	9728
nuclear propulsion program—		extracting science (address).....	15499
hearing.....	15748	reports.....	245A
report.....	15749	1479, 3193-96, 7227-30, 9730,	
overdue, notification and reporting		11818-820, 13870, 15500-504,	
to CAB, safety investigation		17290-292.....	
regulations.....	5719	kinematics of avoidance of collision	
PACAF, basic bibliography.....	9635	between aircraft analyzed on	
parallelly connected A-C gener-		curvilinear flight trajectories.....	17801
ators, problem of automatic		non-air carrier, statistical analysis,	
frequency control.....	18763	1958.....	14613
prohibit use to hunt wild horses—		notification and reporting to CAB,	
law.....	15618	safety investigation regula-	
reports.....	14231,	tions.....	5719
18078		prevention, Federal role, hearings.....	3324
radio equipment, 1958.....	17399	30%, factor (address).....	11822A
reactors—		Aircraft automatic pilots :	
digital start-up control.....	15414	AN/ASN-23, operation and organ-	
experiment operation.....	9661	izational maintenance, techni-	
facility hazards summary.....	3940,	cal manual.....	11714
5299		feedback control systems with sat-	
rotary-wing, means to safeguard		uration type nonlinearity, an-	
from powerplant fires in flight.....	9479	alysis and design of data.....	13449
sandwich construction—		rate type of control system, han-	
apparatus for measuring internal		dling characteristics of fighter	
friction and fatigue strength		airplane.....	5254
of core materials.....	4903	sampled-data techniques applied to	
brazed honeycomb core titanium		digital controller.....	9369
panels.....	4276	Aircraft controllers, <i>see</i> Air defense	
stainless steel, at elevated tem-		controller.	
peratures, compressive		Aircraft crash rescue, <i>see</i> Aircraft	
strength.....	10503	accidents.	
small, commercial operations, rules		Aircraft engines, <i>see</i> Engines (air-	
governing—		craft).	
civil air regulations.....	4797	Aircraft flash, official G.O.C. maga-	
postponement of effective date,		zine.....	2297, 10749
civil air regulations amend-		Aircraft fuel, <i>see</i> Motor fuel.	
ment.....	12634	Aircraft materials, <i>see</i> Materials	
specifications.....	4793,	(aircraft).	
11042		Aircraft mechanics, <i>see</i> Mechanics	
standard taxi signals (poster).....	11557	(persons).	
static pressure measurement.....	8062	Aircraft observers, training success,	
structural materials theoretical an-		validity of AFOQT for predic-	
alysis of creep behavior.....	1094	tion.....	3123
structures, fatigue and aerodynamic		Aircraft repair stations, certificates,	
heating.....	10504	civil aeronautics manual.....	7691, 16293
supersonic, shock wave noise prob-		Aircraft simulators :	
lem in steady flight.....	6777	ground studies of nonlinear linkage	
supplemental type certificates and		in power control systems.....	6759
replacement parts, summary.....	16311	tests of horizontal display for con-	
target drones, general procurement		trol of high-altitude traffic.....	6122
information.....	6085	Airfields, <i>see</i> Airports—Aviation	
telemetry standards, military		fields—Pavements.	
standard.....	1585	Airflow changes in multiple-fan sys-	
turbojet, crash fires, origin and		tems.....	6652
prevention.....	9359	Airfoils :	
turboprop transport operating over		control-surface flutter derivatives,	
eastern U.S., analysis of accel-		investigation in high-speed	
eration, airspeed, and gust-		wind tunnel.....	2021
velocity data.....	16881	leading-edge area-suction flap use	
unswept trailing-edge, effectiveness		to improve high-lift character-	
characteristics on 60° delta		istics of airplane model.....	959
wing at Mach numbers 0.75		profile effects on 2-dimensional flut-	
to 1.96.....	5251	ter derivatives for wings oscil-	
VTOL, downwash from hovering		lating in pitch.....	15046
take-off-and-landing starts sur-		thin, theory based on approximate	
face erosion of terrain.....	16893	solution of transonic flow equa-	
<i>see also</i> Air carriers—Airplanes—		tion.....	8061, 9358
Fighter planes—Flight—Hell-			
copters—Power plants—Sea-			
planes—Stability of aircraft—			
also names of aircraft parts,			
e.g. Propellers.			

# JANUARY-DECEMBER

	Entry
<b>Airfoils—Continued</b>	
transonic Mach numbers to 1.25 chordwise pressure distributions.....	10502
two-dimensional characteristics of NACA 6A-series at transonic Mach numbers to 1.25.....	16859
two-dimensional flutter derivatives for airfoil oscillating in pitch at high subsonic speeds, effects of angle of attack and profile.....	953
two wedge sections, transonic aerodynamic characteristics.....	10491
wedge and circular-arc sections, pressure distribution at transonic speeds and evaluation of perforated-wall interference.....	13448
<i>see also</i> Wings (aircraft).	
<b>Airframes:</b>	
and jet engines, arrangements for increased range.....	6718
design and construction, specification bulletins.....	151-152, 1358, 4264, 7115
maintenance, repair, and alteration, civil aeronautics manual.....	220, 1616, 6117, 7089
missile, with control surfaces consisting of projecting quadrants of nose cone.....	6686
Airlift, <i>see</i> Transportation.	
Airlift service, Air Force Industrial Fund, Air Force manual.....	1346, 4227, 8360
<b>Airline employees:</b>	
retired, free or reduced rates—	
hearing.....	8737
reports.....	8705, 9560
Airlines, <i>see</i> Air carriers.	
Airmail, <i>see</i> Air mail.	
Airman's Medal, designate, report.....	4585
<b>Airmen:</b>	
agency certificates, civil aeronautics manual.....	16291
Air Force personnel systems, method for estimating effects of policy decisions.....	9647
airman's guide—	
Alaska.....	2513, 11046
Pacific supplement.....	2512, 11044
notices to airmen.....	11045
United States.....	2511, 11043
airplane flight instructor examination guide.....	3437
aptitude differences related to region of enlistment.....	156
career fields and skill levels, functional arrangement chart.....	5565
classification manual, changes.....	4206-7, 8347
international notams.....	2517, 11050
military personnel reorder system, Air Force manual.....	7081
performance, aptitude tests battery and classification battery AC-2A.....	11684
performance in technical school, relation of selective aptitude index.....	3121
physical standards, medical certificates—	
civil aeronautics manual.....	17393
civil air regulations amendments.....	3442, 16301
volunteers for 6-year tour in missile squadrons, characteristics.....	4270
<i>see also</i> Air Force—Aviators—Pay, allowances, etc.	
Airplane accidents, <i>see</i> Aircraft accidents.	
Airplane fabrics, inspection adjacent to windshield and elsewhere, general aviation alert bulletin.....	12635
Airplane mechanics, <i>see</i> Mechanics (persons).	

	Entry
<b>Airplane tires, <i>see</i> Tires.</b>	
<b>Airplanes:</b>	
airworthiness—	
normal, utility, and acrobatic categories—	
civil aeronautics manual.....	16282
civil air regulations amendments.....	17394
transport categories—	
civil aeronautics manual.....	16283
civil aeronautics manual, supplements.....	219, 3439, 4704
civil air regulations amendments.....	8982, 16297
B-58 crew rescue and fire fighting handbook.....	5591, 7099
Bell X-1, longitudinal stability from transient responses at Mach numbers up to 1.12 at lift coefficients of 0.3 and 0.6.....	1025
Bell X-5, 45° sweptback configuration, lift and drag at transonic speeds.....	16800
bombers, pitch-up problem, criterion and method of evaluation.....	5297
canard configuration, 45° sweptback wing of aspect ratio 6.0, etc., longitudinal stability at transonic speeds.....	1042
civil jet aircraft, ATC procedures, preliminary report on simulation.....	4807
components in combination—	
all-movable wing tip control, effect on longitudinal stability.....	6732
zero-lift wave drag, supersonic and moment-of-area rules combined for rapid calculations.....	9371
Convair XF-82A—	
delta-wing model at low lift pressure distributions at transonic speeds.....	1020
longitudinal stability in maneuvering flight, including effects of wing fences.....	1022
daytime conspicuity.....	
determination in terminal area.....	9480
investigation of means to improve.....	245
design-loads, means of rationalizing.....	16815
Douglas 5-558-II research—	
aerodynamic forces on wing-mounted external-store installation.....	16803
effects of wing-mounted external stores on—	
lift and drag.....	16801
longitudinal and lateral handling qualities.....	16802
flight-determined pressure distributions at Mach numbers up to 2.0.....	13406
flight-determined pressure measurements at Mach numbers up to 1.14.....	13410
Douglas, half-submerged and pylon-mounted aircraft stores, effect of drag of longitudinal positioning on fuselage with and without cavities between Mach numbers 0.9 and 1.8.....	17727
equipped to vary longitudinal-control system, flight study of dynamic response characteristics over wide range.....	10764
fire-detection, evaluation of systems proposed for Martin YP6M powerplant.....	7699
flare-stabilized bluff body, zero-lift drag, effect of conical and flat sting-mounted windshields.....	16864
flight buffet loads, wind tunnels to predict.....	16854

# INDEX, 1959

Airplanes—Continued	Entry
flight instructor examination guide.....	3437
45° sweptback-wing model, geometric dihedral effect on aerodynamic characteristics in pitch and sideslip.....	6733
free-flight investigation of rocket-propelled model aerodynamic heat transfer characteristics etc.....	1075, 2051
free-flying radio-controlled models, use to study incipient and developed-spin characteristics.....	5280
glide tests, landing, ability to position on 5,000-foot runway, effect of lift-drag ratio and speed.....	6785
hypersonic, boost-glide, design aspects.....	16751
in level flight at Mach numbers to 1.4 and altitudes to 45,000 feet, ground measurements of shock-wave noise.....	16888
inspection requirements clarification, civil air regulations amendment.....	17397
interceptor, stabilization, etc. during final attack phase flight and analog computer studies.....	954
interceptor-type, flaps, leading-edge effect on lift, drag, and pitching moment of thin, unswept wing.....	10469
jet—	
aerodynamic characteristics during take-off and landing.....	16671
characteristics of acceleration-type take-off indicator.....	9373
exhausting from wing-mounted nacelle, effects upon body drag of body-wing nacelles.....	13418
instrument flying techniques and procedures, Air Force manual.....	130
noise problems associated with ground operations.....	6779
operating, symposium.....	3390
problems pertinent to high-speed operation, flight studies.....	6773
problems pertinent to low-speed operation, flight studies.....	6771
responses to abrupt throttle steps as determined from flight tests.....	16880
rough-water ditching investigation.....	16912
single-engine, effect of, controllable thrust reverser on flight characteristics.....	9375
supersonic, performance and heating problems.....	6693
sweptback-wing equipped with external-flow jet-augmented double slotted flap wind tunnel investigation.....	6783
landing mats and membranes, breaking and landing tests.....	16923
large flexible swept-wing flight test measurements of wing structural deformations in rough air.....	2048
lateral oscillation characteristics, correlation.....	16745
long-range hypervelocity vehicles, analysis of performance.....	10466
low-lift drag and stability data from delta wing rocket models with and without external stores at Mach numbers from 0.8 to 1.36.....	13409
model with low-aspect-ratio unswept wing and 2 different fuselage fore bodies, low-subsonic static stability and damping derivatives.....	5269

Airplanes—Continued	Entry
model with unswept, aspect-ratio-10-wing, 2 propellers, and blowing flaps, wind-tunnel tests.....	1087
model with unswept, aspect-ratio-10-wing, 4 propellers, and blowing flaps, wind-tunnel tests.....	16874
model with wing of 45° sweep, use of leading-edge area-suction flap to improve high-lift characteristics.....	959
new jet and turboprop, facilitate financing—	
hearing.....	7628
law.....	11968
reports.....	7560, 8701
optimal flight trajectories, piece-meal solutions.....	17759
optimum flight paths.....	17760
performance—	
longitudinal body fences effect.....	991
supersonic bombers, turbojet engine for propulsion, analysis.....	13398
piston-engine, summary of VGH and V-G data, 1947-58.....	16876
pitch-damping derivatives as measured in flight at transonic and supersonic speeds, summary.....	3909
ramp-type scoop inlet on top or bottom, supersonic performance.....	16773
range increase by arrangements of jet engines and airframes.....	6718
response to random atmospheric disturbances.....	5214, 9357
rocket-powered—	
fin-actuated jet-vane control system for stabilization.....	3907
optimum climbing trajectory, approximate solutions.....	16920
sweptback wing and inline tail surfaces, lift, drag, longitudinal stability.....	16821
safety, tire-to-surface friction under wet conditions in braking on runways.....	6764
static-pressure error calibrations for nose-boom airspeed installations.....	3906
static stability of wingless jet VTOL transport, low-speed wind-tunnel investigation.....	17737
structural temperatures at supersonic speeds, flight measurements.....	15057
supersonic configuration—	
having tapered wing with circular-arc sections and 40° sweepback, interference effect of wing on fuselage.....	16805
rocket-powered, having tapered wing with circular-arc sections and 40° sweepback, flight investigation results between Mach numbers of 0.8 and 1.36.....	1024
with sweptback circular arc wing, etc., wing-flow measurements of longitudinal stability and control characteristics.....	13407
swept- and unswept-wing-fuselage combinations, investigations of flow fields at zero sideslip.....	1070
swept-wing—	
blowing-type boundary-layer control as applied to trailing-edge flaps.....	5217
bomber in sideslip, analysis of incremental horizontal-tail loads.....	16911



Airplanes—Continued	Entry
swept-wing—continued	
effects of fuselage nose length and canopy on low-speed oscillatory yawing derivatives—	3923
fighter, maximum wing and tail loads, summary of flight conditions and maneuvers—	10470
longitudinal control in landing approaches—	1039
suction area boundary-layer control application to trailing-edge flaps—	5218
sweptback wing-fuselage juncture for drag reduction at transonic speeds, method of designing—	1047
towed model, equipped with autopilot system, wing-tunnel flutter experiments, results—	5252
vertical-tail size effect on rolling behavior due to lateral-longitudinal coupling, flight investigation—	6725
tail-wing-fuselage combinations—	
aerodynamic characteristics in steady roll of model at high subsonic speeds—	3910
force test results for body-mounted lateral controls and speed brakes on 45° swept-wing model at Mach numbers from 0.80 to 0.98—	1062
low lift lateral stability, effects of yaw damper system at Mach nos from 0.76 to 1.73—	6747
low-speed measurement, etc—	1064
pitch and sideslip—	
aerodynamic characteristics—	6735, 13430
basic data presentation, M=2.01—	6729
pitch-up elimination, design studies—	1036
stability derivatives, low-subsonic measurements at angles of attack from 10° to 90°—	13434
transonic investigation of static longitudinal-stability characteristics—	13420
tailless, with sweptback wing, investigation of external-store configurations—	16804
TBM aerial tanker testing in Southeast for forest fire control—	14737
transport—	
acceleration, airspeed, and gust-velocity data, analysis—	5265
configurations for reducing drag at high subsonic speeds—	6770
taxling over obstacles, measurements of ground reaction forces and vertical accelerations at center of gravity—	16872
turbine-powered, oxygen-system requirements, civil air regulations amendments—	14612, 16304
turbojet-powered, optimum flight trajectories, approximate solutions—	16922
use in measurements of atmospheric turbulence at altitudes between 20,000 and 55,000 feet—	9370
vertical, minimal maneuvers of high-performance aircraft—	16924
vertical—short take-off-and-landing, estimating lift and drag characteristics—	5264
vertical take-off and landing, tilt-wing effect of ratio of wing chord to propeller diameter—	15074
wing-body combination—	
moment-of-area-rule modifications effect on drag, lift, and pitching-moment characteristics—	6766

Airplanes—Continued	Entry
wing-body combination—continued	
pressure measurements at transonic speeds for swept-back, 45°, tapered wing with spanwise twist variation—	3944
zero-lift drag, effect of moment-area-rule modifications—	13388
wing-body-tail combinations, low-speed investigation of static longitudinal and lateral stability characteristics of airplane configuration—	13424
wing-fuselage combinations—	
basic pressure measurements on wing with cubic variations of twist across span—	10496
bulbous leading-edge contours, low- and high-speed data analysis—	13387
effect of longitudinal wing position on pressure characteristics at transonic speeds—	3908
effects of fences, leading-edge chord-extensions, etc., on stability—	15061
effects of several types of body indentation on transonic aerodynamic characteristics—	15065
effects of some leading-edge modifications, etc., on low-lift drag at transonic and supersonic speeds—	3913
effects of thickness ratio and thickened root sections on aerodynamic characteristics of wings—	1026
longitudinal characteristics at subsonic speeds, effects of wing fences and tail—	16758
pressure measurements for untwisted 45° sweptback wing at supersonic speeds—	1082
propulsive jet effect on drag, lift, and stability—	13419
steady-state aerodynamic loading characteristics at transonic speeds—	16837
supersonic area rule and application to design of wing-body combination—	1031
wing-body juncture interference effects at transonic speeds—	13386
wingless rocket-powered models, effect of external-store mounting arrangements and shapes on buffet and drag characteristics—	1046
X-1E model, wind-tunnel investigation of static longitudinal and lateral stability at supersonic speeds—	15068
XF-92A delta wing, flight measurement of dynamic longitudinal stability and frequency-responses characteristic—	1021
XS-1, Air Force transonic flight tests, results obtained during extension—	1023
see also Air carriers—Aircraft—Drag (aircraft)—Fighter planes—Lift (aircraft)—Seaplanes—Stability of aircraft.	
Airport-control tower operators:	
air controlman, Navy training courses—	9425
air traffic control operator, non-radar/radar, Air Force on-the-job training package—	15352
specialists, examination announcement—	13883
Airport surveillance radar, see Air traffic.	

# INDEX, 1959

Airports:		Entry	Alabama:		Entry
construction standard specifications		14607	agricultural conservation handbook		6
daytime conspicuity determination of small airplane in terminal area		9480	census of governments, 1957, State bulletin		11774
development compacts, interstate, consent of Congress, report		8871	climate		7000
discretionary funds allotted under Federal act, include Alaska and Hawaii—			climatological data		2993, 11546
law		15660	farm supply co-ops, inventory management		7687
reports	12436, 14313,	15809	landings—		
facilities, development compacts, interstate, consent of Congress—			fish and shellfish, annual summary, 1958		10121
law		12025	fishery products		2605, 11143
report		12198A	minerals industry, minerals yearbook chapters		927, 17682
Federal act—			precipitation data, hourly		2996, 11549
amend—			refractory properties of bauxitic kaolins		13371
hearings		3389, 4659	TVA program activities		2164
law		9792	Alarm systems, poisonous gas warning devices		14866
reports	4602, 4712, 5859,	8710	Alaska:		
views	4602, 4712,	5859	air transportation service (address)		11821
CAA operations, report 1958		3438	airman's guide		2513, 11046
grants-in-aid provisions, extend time—			appropriations, 1960, proposal		8548
hearings		3389, 4659	Arctic slope vegetation		7851
law		9792	Arctic Wildlife Range, establish, hearing		14567
reports	4602, 4712, 5859,	8710	Beluga River coalfield, reconnaissance		2012
views	4602, 4712,	5859	black spruce effect of pruning by red squirrels on crown form		3551
make applicable to Alaska, hearing		12550	canned fish and byproducts, annual summary		6187, 7738
Federal-aid program, policies and programming standards		16306	census enumerator's training manual		17284
Federal role in aviation, hearings		3324	census of governments, 1957, State bulletin		13851
location identifiers manuals, revisions		2518, 11051	central waters, shrimp explorations, July-Aug. 1958		16373
national plan, 1959		6120	climate		17159
segmented circle marker system, technical standard order		10098	climatological data		2993, 11546
small, planning sites, etc., basic information		6121	coal land leasing, increase acreage limitation—		
see also Air traffic—Aviation fields—Pavements—also names of places where located—also names of airports.			law		15628
Airpower, see Air power.			reports	12212, 12487,	14309
Airspeed, see Air speed.			coast pilot supplement		4397, 5757
Airstrips, see Runways (aeronautics).			commercial fisheries, protection laws, etc.		7752
Airways:			congressional delegation, present with official U.S. flag—		
control areas, zones, etc., designation, regulations		1618	law		7307
definition of control areas, civil air regulations amendment		3448	reports		4718, 7373
designation, regulations		1618	construction materials, investigations (series)		16456
FAA air traffic activity, summary, 1958		8984	construction outlook (adaptation of speech)		3819
Federal, air traffic activity, summary 1958		3449	crude oils, analyses		6664
flight inspector, examination announcement		4380	earthquake history		4393
restricted areas, regulations		3450	electric facilities, map		16342
tactical system, simulation tests of traffic control procedures		7698	electric rate book		12648
transportation system routes, maps		7231-33	Federal airport act, make applicable, hearing		12550
Airways Modernization Board:			Federal land withdrawals and reservations, atlas		8013
functions, transfer to Federal Aviation Agency, law, comparative print		7627	fertilizing Bare Lake, effects on growth and production of red salmon		17427
research and development program and progress report, Aug. 14, 1957-Oct. 31, 1958		4045	fetal deaths, 1957, national summaries		16960
Airworthiness, see Aircraft—Airplanes—Glanders (aircraft)—Rotorcraft.			fires in inactive coal deposits, control		16701
Ajlsaka, Tatsumi, and others, relief		14174	fisheries—		
Ajo Mountain Drive, Organ Pipe Cactus National Monument, general information		1110	annual summary, 1957		4846
Akul'shin, Pavel K., biographical sketch		1935	annual summary, 1958		12670
ALA, see American Library Association.			management and research, 1958, progress report		16388
			preliminary review, 1958		6190
			flight information manual		10095
			forest fires, ecological effects (remarks)		16672
			gasoline, jet fuel, etc., service-station deliveries, Federal supply schedule		419
			general information		6975

# JANUARY-DECEMBER

	Entry
Alaska—Continued	
geology of possible petroleum sources	17488
Governor, report, 1958	10197
Grandstand area, test wells, exploration and micropaleontology study	3604
Homer district, Kenai coal field, geology, etc.	17486
include in distribution of discretionary funds under Federal airport act—	
law	15660
reports	12436, 14313, 15809
indicators of forest land classes in air-photo interpretation of interior	1669
infant mortality, 1957	16959
information, Government publications list	15159
interstate highway extension, study, law	15707
job information	4111
land and water resources development, commission to study, report	16165
light list	4405
Little Susitna district, Matanuska coal field, geology, etc.	3598
mailboat service between Seward and Nikolai, restrict route—	
hearing	12506
report	12483
marriages and divorces, 1957	9413
marriages, divorces and annulments, 1957	9412
maternal mortality, 1957	16958
Meade and Kaolak areas, test wells, exploration and micropaleontology study	1714
merchant marine and water transportation problems remarks	3462
mineral industry, minerals year-book chapter	1987
mineral lands for homesteaders, quitclaim oil and gas rights, hearing	16208
mineral lands leasing increase acreage limitations—	
hearing	12541
reports	12197, 12477
veto	14114
mineral resources (series)	3598, 4925-26, 16458, 17486
mortality data, 1957, national summaries	10522
motor carriers and freight forwarders, IGC permits, grant grandfather rights, report	9984
Mount Katmai area, geology	16458
natality, 1957, national summaries	16961
national atlas sheets—	
aerial mosaics	14750
aerial photography status	14751
topographic mapping status	14752
naval petroleum reserve no. 4 and adjacent areas—	
exploration, 1944-53, regional studies (series)	7851, 9120
exploration, subsurface geology and engineering data (series)	1714, 3604, 6291-93, 7852
north, Eskimo echology and society—	
departmental edition	8375
document edition	8529
northern, phosphate deposits	9120
oil and gas deposits in lands beneath inland navigable waters, lease, hearings	3388
omnibus act—	
hearings	8736, 8893
law	9790
reports	8633, 8668, 8831
public lands and future (remarks)	3826
public lands, orders affecting	16674
publications, price list	2107, 8186

	Entry
Alaska—Continued	
radio facility charts	2310, 2312, 10761
dates of latest prints	2409
reclamation investigation appropriations, remove limitations, report	12496
selection of mineral lands subject to lease, etc., amend statehood law—	
hearing	12541
law	14028
reports	12220, 12486
Sentinel Hill and Fish Creek areas, core test and test well, exploration	7852
Shumagin Islands to Unalaska, king crab, shrimp, and bottom fish explorations, summer and fall, 1957	9037
Simpson area, test wells, exploration	6293
soils and permafrost conditions, evaluation	7677
southeastern, bottom trawling explorations, 1956-57	4850
Square Lake and Wolf Creek areas, test wells, exploration and micropaleontology study	6292
statehood act, amend—	
hearing	12541
law	14028
reports	12220, 12486
stratigraphic distribution of pelecypod Aucella	7853
surface water, quantity and quality	1716
surplus property donation, hearings	17353
tin mining at Lost River	1985
tin-placer sampling methods and results	6649
Titaluk and Knifeblade areas, test wells, exploration and micropaleontology study	6291
transportation on Canadian vessels—	
law	12012
reports	4731, 12138
volcanoes, investigations (series)	3593, 7844-45, 9114
water transportation, FMB programs and policies (remarks)	3463
waterborne commerce, 1957	1609
women, labor laws summary	13667
Alaska (fishing vessel):	
cruises, Gulf of Mexico, biological oceanographic survey, chemical data collected	6193
Alaska Coastal Airlines, accidents	3193, 15500
Alaska Forest Research Center:	
station paper	1689
technical notes	3551
Alaska International Rail and Highway Commission:	
extend life—	
law	11965
reports	7554, 8670
Alaska Native Brotherhood:	
history, etc.—	
departmental edition	157
document edition	287
Alaska Peninsula fauna	17430
Alaska Railroad:	
economic regulations under interstate commerce act—	
minority views	12394
report	12394
Alaska, Rivers, Ports, and Drainage Basins, United States Study Commission on Development of, see United States Study Commission on Development of Rivers, Ports, and Drainage Basins of Alaska, and intervening areas.	

# INDEX, 1959

	Entry	
Albacore, <i>see</i> Tuna fish.		
Albania:		
economic and military reports-----	576,	
601, 5000, 12808, 12846, 12861,		
14823, 17545.		
hydrometeorological service--	1881, 12919	
selected economic translations--	5058,	
5066, 13227, 14884, 14888,		
14895-896.		
selected political and sociological		
translations-----	4970, 4985	
selected sociological transla-		
tions-----	6375, 17560	
statistical yearbook, 1958, trans-		
lation and glossary-----	16536	
trees and shrubs, description,		
etc.-----	856	
Albert, Martin, relief-----	4692	
Albi, Evelyn, relief-----	4481	
Alcohol:		
industries, 1958, statistics-----	540	
production, bibliography-----	15288	
water-alcohol injection into com-		
bustion chambers of axial-flow		
turbojet engine, altitude in-		
vestigation of thrust augmen-		
tation-----	6696	
<i>see also</i> Butyl alcohol-Fluoroal-		
cohols.		
Alcohol and Tobacco Tax Division,		
<i>see</i> Internal Revenue Service.		
Alcoholic beverages, <i>see</i> Liquors.		
Alcoholism, USSR all-Union confer-		
ence on problems of con-		
trolling-----	17645	
Aldehydes, use in tanning heavy		
leather-----	4038	
Alder:		
red-----		
volume tables-----	16439	
hardboard from-----	4907	
site curves-----	1690	
Alenkemia, death rates by age, color,		
and sex, 1949-51-----	6820	
Alentian Islands:		
fauna-----	17430	
geology of Delarof and western-		
most Andreanof Islands-----	7844	
invertebrates and fishes collected,		
1936-38-----	17430	
Alexander, Edwin A., proceedings		
against, citing for contempt,		
report-----	14314	
Alexander, Lois K., relief--	4531, 5984, 7296	
Alexandria, La.:		
National Fire Behavior Training		
School, 1959 course-----	16437	
railroad accident-----	7886	
Alexandria, Va., civil defense action		
guide-----	17294	
Alfalfa:		
downy brome control-----	7069	
improvement conference, July 28-		
30, 1958, report-----	7044	
Alfalfa aphids, <i>see</i> Spotted alfalfa		
aphids.		
Alfalfa meal, production, monthly		
report-----	2230	
Alford, Dale:		
election, complaints of Brooks		
Hays-----		
hearings-----	3321, 14339	
report-----	15914	
Algae:		
content in water supplies, identifi-		
cation, significance, etc., man-		
ual-----	17037	
feasibility of using in submarine		
air purification-----	1125	
utilization in Communist China--	16551	
Algeria, sending gift packages to--	16399	
Alien Property Office, report, 1958--	5610	
Aliens:		
admission to U.S., waive immigra-		
tion and nationality act pro-		
visions-----	5830,	
8616, 8794, 9761, 9826, 15601,		
16031.		
code of Federal regulations-----	4821	
court proceedings in forma pau-		
peris, permit-----	15685	
law-----	12148,	
reports-----	16153	
deportation and exclusion orders,		
judicial review-----	8685	
report-----	8685	
views-----	15999	
deportation suspension-----	6031,	
employees of U.S. exclude from		
gross income for tax purposes		
amount paid by U.S. report--	15821	
entry-----	12104, 15562,	
exclusion-----	16034	
facilitating admission-----	16032	
7359, 8619, 8805, 9825, 9975,		
11933-934, 12392, 13961, 13963,		
14389.		
Federal employment in States and		
D.C., consolidate and review		
laws, report-----	12305	
permanent residence, amend immi-		
gration and nationality act--		
law-----	14090	
report-----	7378, 12415	
permanent residence and deporta-		
tion-----	12076, 15602, 16033	
permanent residence, grant--	8618, 14388	
relatives of U.S. citizens, etc.,		
permanent residence, grant--		
law-----	15727	
reports-----	9881, 16156	
relief-----	5828,	
7344, 7360, 8617, 8781, 9824,		
11915, 12361, 12377-378, 13930-		
931, 13960, 13962, 14383,		
14398.		
residence and business rights in		
Federal Republic of Germany		
and West Berlin-----	4876	
veterans benefit payments under		
corrected discharge-----		
law-----	12000	
reports-----	9831, 12417	
<i>see also</i> Immigration and emigra-		
tion.		
Alkalies, concentrated alkaline solu-		
tions use with lime for de-		
composition of nephelines for		
alumina leaching, USSR study--	12944	
Alkaline batteries, <i>see</i> Storage batter-		
ies.		
Alkaloids, alkaloid content and distri-		
bution of ergot in USSR-----	12935	
Alkanes, C <sub>5</sub> -C <sub>10</sub> n-alkanes, conver-		
sions in presence of aluminum-		
chromium potassium catalyst,		
USSR studies-----	1911	
Alkyd resins, <i>see</i> Resins.		
Alkyd compounds, thermal decomposi-		
tion of some metal alkyls-----	6721	
All-bank statistics, United States		
1896-1955-----	9006	
All hands, Naval Personnel Bureau		
information bulletin-----	2863, 11403	
All-Union conference on medical radi-		
ology, <i>see</i> Union of Soviet So-		
cialist Republics.		
All-Union conference on philosophical		
problems of natural science,		
<i>see</i> Union of Soviet Socialist		
Republics.		
All-Union conference on problems of		
controlling alcoholism, <i>see</i>		
Union of Soviet Socialist Re-		
publics.		
Allegheny County, Pa.:		
coal, carbonizing properties-----	6668	
coal preparation characteristics--	13372	

	Entry		Entry
Allegheny National Forest, general information .....	1670	Altitude—Continued	
Allergy:		high, effect on performance of turbojet combustor having variable primary-air admission .....	13402
general information, health information series .....	10564	high-performance of turbojet combustor having channeled-walls for secondary-air entry .....	13390
new teaching, USSR study .....	7953	investigation of thrust augmentation using water-alcohol injection into combustion chambers of axial-flow turbojet engine .....	6696
reaction of carotid sinus-chemoreceptors .....	6492	operational characteristics of prototype model turbojet engines J 47D $\pm$ RX 1-1 and RX 1-3, with integrated electronic control .....	961
research progress, 1958 highlights .....	16946	tropopause, nonperiodic oscillations under synoptic processes, USSR study .....	7902
role in infection process, USSR study .....	7954	wind tunnel investigation of high-temperature afterburners .....	6694
Alley, Thelma L., relief .....	7358	Alumina:	
Alley dwellings, District of Columbia, facilitate acquisition of property under act, report .....	7591	cryolite-alumina fusions, USSR study .....	14854
Allied High Commission for Germany, archives, security files of Combined Travel Board, protocol .....	8247	leaching from nephelines by alkaline solutions in presence of lime, USSR study .....	12944
Allowances, <i>see</i> Pay, allowances, etc.—Travel.		production from anorthosite, operation of experimental plant .....	3838
Alloys:		sintered, molds for investment casting of steels .....	9445
bonding by isostatic pressing at elevated temperatures .....	7151	Aluminum:	
boron-modified S-816, performance in turbojet engine operated at 1650° F .....	6774	adhesive bonds, relationship of polymer structure to thermal deterioration .....	13451
corrosion-resistant, halogen-containing gases as lubricants at 1200° F .....	5292	alloys—	
damping capacity .....	6663	axial-load fatigue tests .....	16915
diffusion processes at elevated temperatures, effect of ultrasound, USSR studies .....	1925	binary, plastic deformation study by internal-friction methods .....	6776
E1437, heat resistance to plastic deformation, USSR studies .....	1926	copper, effects of creep stress on particulate .....	16914
heat-resistant—		electrode welds, military standard .....	16247
complex, vacuum-induction, vacuum-arc and arc-induction melting .....	13443	fatigue-crack propagation under completely reversed loading .....	16891
effect of boron and zirconium from crucible refractories .....	8073	fatigue damage, early detection by ultrasonics .....	15366
protective coatings, USSR studies .....	1928	fatigue life of notched cantilever-beam specimen, random loading effects, investigation .....	10490
light, tensile properties at low temperatures .....	17005	iron-aluminum base, development for use in gas-cooled reactor components, progress report .....	7146
measurements of total hemispherical emissivity .....	3026	iron-aluminum, mechanical working and heat treatment, use of Charpy-V transition temperature test .....	8154
noble metals, thermoelectric properties .....	13793	iron-chromium, Charpy-V transition temperature .....	17808
refractory, literature search .....	4323	PK-40 compartment electric stationary ovens for melting .....	649
special cast high-alloy, certain problems on theory of alloying, USSR studies .....	5118	silicon, structure .....	16987
<i>see also</i> names of metals, etc.		sintered powder type, proposed mechanism for strengthening .....	2086
Alma, Ga., aircraft accident .....	15503	bath containing magnesium fluoride, physico chemical properties, USSR study .....	1745
Almanacs:		electrolysis units, intensification of working, USSR study .....	10268
air, 1959 .....	1119, 6843	extraction from nepheline, Lenin prize winners .....	1783
air, 1960 .....	10528, 17793	high-purity, fatigue tests, effect of rest periods .....	1084
<i>see also</i> Nautical almanacs.		identification marking, Federal standard .....	14649
Almonds, Tariff Commission report .....	17132	Industry—	
Aloa sapidissima, <i>see</i> Shad.		midyear review and outlook for 1959 .....	9693
Alpha particles, elastic scattering by 0-16 .....	11723	outlook for 1959 and review of 1958 .....	1414
Alpha rhythm, <i>see</i> Brain waves.		small business problems, report .....	1537
Alpha waves, <i>see</i> Brain waves.		ingot and mill products, facts for industry .....	10902
Altai Mountains, Sarymsakty ridge, polymetallic mineral occurrences .....	647		
Altay Mountains, <i>see</i> Altai Mountains.			
Altimeters:			
airworthiness, general maintenance alert bulletin .....	4801		
pressure activated, sensitive type, technical standard order .....	16312		
setting, civil air regulations, amendment .....	1480		
aircraft, review of errors due to static pressure source .....	13432		
Altitude:			
effect on performance of J71-A-2 (600-D1) turbojet engine .....	13404		
evaluation of several afterburner design variables on J47-GE-17 turbojet engine .....	16771		



# INDEX, 1959

	Entry		Entry
Aluminum—Continued		American Gas Association, duplica-	
iron-aluminum-oxygen phase rela-		bility studies of test method	
tionships	4274	and correlation with industrial	
melting, electric ovens	649	coking	8050
minerals yearbook chapter	16685	American Historical Association:	
Mines Bureau research program	13345	report, 1957—	
panels, exposed to random and dis-		departmental edition	5612
crete noise, acoustic fatigue	13439	document edition	5792
primary, monthly report	2830, 11372	American history, <i>see</i> History.	
production costs	1788	American Hydrotherm Corp., relief	4530,
production, etc., 1958	13345	5983, 7295	
scrap and secondary ingot	2788, 11332	American Indians, <i>see</i> Indians.	
secondary production, etc., 1958	15012	American Institute for Research,	
silicon eutectic	15131	training contract, report	12186
silicon eutectic, solidification	16989	American International Institute for	
uranium, diffusional bonding, prog-		Protection of Childhood, <i>see</i>	
ress report	15417	Inter-American Children's In-	
welded structures, USSR industry		stitute.	
expansion	643	American Library Association, cata-	
world trade, 1954-57	5673	logging rules, additions and	
<i>see also</i> names of articles manu-		changes	3829, 10409
factured from aluminum.		American looks at veterinary med-	
Aluminum borohydride, external com-		icine in USSR, talk	9586
bustion in airstream below 2-		American Management Association,	
dimensional supersonic wing at		briefing on small business in-	
Mach. 2.5 and 3.0, experimen-		vestment act of 1958, trans-	
tal investigation of aerodynamic		script of meeting	3382
effects	5263	print additional copies, report	5833
Aluminum foil:		American National Exhibition, Mos-	
converted, 1958, facts for industry	8453	cow, artists and works se-	
packaging industry, outlook for		lected, appraisal, hearings	14358
1959 and review of 1958	1445	American nationals, repatriation,	
Aluminum nitrates, high level acid		emergency assistance, report	16075
radioactive waste solutions,		American overseas, hearing	6056
problems in disposal by injec-		American overseas military cemeteries	
tion into deep-lying permeable		and memorials	8374
formations	4928	American poetry at mid-century	
Aluminum oxide, <i>see</i> Alumina.		(lectures)	907
Aluminum silicate, <i>see</i> Silimanite.		American policy, <i>see</i> International	
Amateur photographer's companion,		relations.	
USSR	3798	American practical navigator, epitome	
Ambassadors:		of navigation	527
nomination of Clare B. Luce to Bra-		American President Lines, Ltd., and	
zil, hearings	7614	others, relief	14176
nomination of Ogden R. Reid to		American propaganda, overseas film	
Israel, hearings	7615	program of USIA	19653
Ambient illumination, <i>see</i> Light.		American republics:	
Ambulance trains, railway, for opera-		Inter-American series	4070-71, 17091
tion on broad-gauge foreign rail-		research, recently completed studies,	
roads, design and construction	6979	list	2147
America:		research, studies currently in	
Asian-American understanding and		progress, list	1190, 13604
cooperation, conference sum-		United States relations, investiga-	
mary	5416	tion, authorization, reports	3347,
Canadian-American business rela-		3360	
tions, U.S. policy (text of		<i>see also</i> Latin America.	
address)	7270	American Samoa:	
trade with other countries, benefits		canned fish and byproducts, annual	
derived (remarks)	5765	sumamry	6187, 7738
<i>see also</i> Latin America—North		general information	1216
America—United States.		Governor, report, 1958	4946
America illustrated (periodical):		national atlas sheet, topographic	
Polish language	6987, 11525	mapping status	14752
Russian language	2977, 11526	wage order procedure, under fair	
American Airlines, Inc., accidents	245A, 17290	labor standards act	4121
American Bankers Association, Federal		American Society of International	
Government lending, views	17390	Law:	
American Commission for Cultural		use property in D.C. as national	
Exchange with Italy, agree-		headquarters—	
ment	13630	law	14061
American Dental Association, centen-		reports	8689, 14465
nial of founding, extending		American Telephone and Telegraph	
best wishes of Congress, re-		Co., antitrust consent decree of	
ports	4714, 9840	Justice Dept. report	8742
American Education Week, Nov. 8-14,		American Viscose Corp., wage chro-	
1959, facts, resources, etc., to		nology, 1952-58	5176
emphasize lifelong learning	16258	American woods, <i>see</i> Wood.	
American ephemeris and nautical al-		Americas, cultures, United States	
manac, 1960	2077	National Commission for	
American Ethnology Bureau, bulle-		UNESCO, 7th conference, ad-	
tins	157, 4279, 5611, 8375	vance program	13595
		<i>see also</i> Latin America—South	
		America.	
		America's highway program (ad-	
		dress)	4031

# JANUARY-DECEMBER

	Entry		Entry
Ames Laboratory:		Anan'yer, Boris G., biographical	
metallurgy research summary re-		sketch	1935
port	181	Anaphylaxis, mechanism, role of cen-	
physics research, Jan.-June 1958,		tral nervous system, USSR	
report	4314	studies	5128
AMG, see Acreage-marketing guides.		Anatomy:	
Aminazine:		All-Union Congress of Anatomists,	
dermatitis due to, USSR study	14848	Histologists, and Embryolo-	
effect on cerebral hemispheres		gists, resolution	12990
electroencephalic analysis	633	human, radioactive contamination,	
employment in prophylaxis and		use of low level scintillation	
therapy of acute radiation		spectroscopy in evaluating	11720
sickness, USSR study	14923	mosquitoes, larval, pupal, and	
use in radiation sickness, prophylactic effect, USSR study	13258	adult stages	17847
Amines:		Anatomy of housing starts statistics	
Amine cured resins, chemical		(address)	3810
method for determining epoxy		Andalusite, bibliography	10188
content	6876	Andersen, Neal E., relief	14194
2,4-D amine salt, use in debarking		Andreanof Islands, westernmost	
bigtooth aspen	3570	geology	7844
Amino acids:		Anemia, death rates by age, color,	
alpha-amidases and microbe ac-		sex, U.S., 1949-51	8110
ylases, effect of antibiotics,		Anemographs, M-27, design, etc.	1809
USSR study	16541	Anemometers:	
aromatic, metabolism problem in		contacting-type, totalizing wind	
radiation sickness, USSR study	6583	counter, history of develop-	
pollock fish scale protein composi-		ment, etc.	7839
tion	427	hot-wire, survey with compressor-	
Amity, see Friendship.		blade wakes and other flow phe-	
Ammunition:		nomena	10472
Federal supply schedule	1629	Anesthesia, see Anesthetics.	
supply and preservation, technical		Anesthesiology, modern basic prob-	
instructions, procedures, etc.,		lems, USSR study	14864
manual	17006	Anesthetics, local, pharmacology and	
Ammunition Depot, Hingham, see		reactions from topical use	15235
Naval Ammunition Depot,		Aneth oil field, San Juan County,	
Hingham.		Utah, reservoir-oil charac-	
Amortization, see Mortgages.		teristics	16730
Amoy, China, economic plan, 1958,		Ang, Lily, relief	14374
report	6555	Angelique, foreign wood	6247
Amphoteric substances, low surfac-		Anhui province, national economic	
tant content cleaners	6879	plan, 1957, implementation	
Amplifiers:		results, report	700
I-F, for transistors	13777	Animal Disease Eradication Division,	
linear arrays having Dolph-Tcheby-		regulations and laws adminis-	
cheff amplitude distributions,		tered by code of Federal regu-	
design	6856	lations	9597
special purpose, technical manual	7134	Animal fats, see Fats.	
wide-range, for air shower detector,		Animal glue, see Glue.	
Japan study	6403	Animal industry, see Livestock.	
wide-range multiple-pulse, design	13508	Animal oils, see Oils.	
Amplitude and phase control unit,		Animal products:	
CAA specification	230	carload waybill statistics, 1957	3626,
AMS, see Agricultural Marketing			4961
Service—Applied mathematics		carload waybill statistics, 1958	12790,
series.			16493
Amur River and Valley:		code of Federal regulations	6137
climatic conditions	12882	fatty acids content, tables	9591
economic geography	1748	Animals:	
Anaconda Company:		asphyxiation effects on behavior	
mining methods and costs, Berkeley		and reaction of central nerv-	
pit, Butte, Mont.	6651	ous system	841
wage chronology, 1954-58	9307	carload waybill statistics, 1957	3626,
Anaerobic infections (USSR peri-			4961
odical):		carload waybill statistics, 1958	12790,
selections	14937		16493
Anaerobnyye infektsii (periodical):		code of Federal regulations	6137
selections	14937	death under 25-Mev betatron ray,	
Analgesics use in regulating child-		pathological anatomy diagno-	
birth pain, USSR study	9244	sis, USSR study	10355
Analog computers, see Electronic		exposure chambers for research in	
computers.		inhalation, design, etc.	15171
Analysis, see Names of substances		extrapolational reflexes, biological	
analyzed.		significance, USSR studies	6603
Analysts, see Commodity-Industry		husbandry, radioisotopes uses, list	
analyst—Management ana-		of references	9665, 15419
lysts.		Interstate transportation, code of	
Analytical chemistry, see Chemistry.		Federal regulations	9597
Analyzers, interoceptive, morphologi-		irradiated—	
cal structure and peculiarities		early changes in bone marrow,	
of its work, USSR study	14913	USSR study	16593
		experimental anthrax infection,	
		USSR study	17568

# INDEX, 1959

Entry	Entry
Animals—Continued	Antarctica Medal, establish, report... 12243
irradiated—continued	Antennas:
function of gastro-intestinal tract, reflex effects from internal organs, USSR study... 5122	and feeder assembly, marker beacon, CAA specification... 229
reaction to general cooling, USSR study... 10379	array of spiral doublets, electro-mechanical scanning, development... 10535
morphology, Soviet abstracts... 3754,	breakdown and detuning in ionosphere... 17802
10282, 10297, 10318, 13007,	BS-2 travelling wave, with active coupling impedance, design, etc., USSR study... 17562
13019, 13075, 13079, 13104,	flat spiral, application to broadside scanning arrays... 1124
13192, 13198, 13205, 13232	gain, techniques for accurate measurement... 2057
nutrition influence on course of radiation injuries, USSR studies... 719	linear arrays having Dolph-Tchebyscheff amplitude distributions, design... 6856
physiology, Soviet abstracts... 3767, 3780,	portable mast, glide slope, CAA specification... 239
6478, 6480, 6511, 6548, 6572,	travelling wave, with controllable directions of null reception, USSR studies... 5108
10298, 10311, 13006, 13036,	USSR wide-band shunt fed tower antenna, description... 820
13050, 13055, 13148, 13204,	VHF, for instrument landing system, CAA specification... 243
14899, 16587, 16590, 17580,	volumetric scanning ground controlled approach antenna prototype... 1126
17628,	Anthony, Robert N., relief... 8567
physiology uses of radioisotopes in, list of references... 7152	Anthrax:
quarantine laws, clarify, report... 8849	bacilli, use of radioactive sulphur for protection, USSR study... 14861
tumors, transplantable and transmissible... 4758	experimental infection in irradiated animals, USSR study... 17568
see also Cattle—Diseases of animals—Livestock.	Anthropology, applied physical, in human engineering, annotated bibliography... 11638
Anjou pears, see Pears.	Antiaircraft artillery, see Artillery.
Annuities:	Antibacterial properties of eucalyptus decoction, USSR... 6614
Comptrollers General widows and dependent children—	Antibiotics:
law... 11974	amino acid alpha-amidases and microbe acylases, effect on, USSR study... 16541
reports... 8711, 9986	anticancer, problem, USSR study, excerpts... 1942
Federal, restoration to employees convicted of subversion, etc.—	anti-cancer, Soviet research... 12926
hearings... 5933, 7643	candida sepsis following antibiotic therapy, USSR study... 10252
reports... 5889, 5896, 6013	effect on organism when used for therapy of infectious inflammations, USSR study... 10251
Foreign Service—	experimental clinical study, USSR, new developments, increase production to satisfy Soviet public health needs... 14938
adjust, hearings... 12534	new medicinal forms, and their application... 806
increase, report... 16102	spray drying methods... 6412
Lighthouse Service former employees, increase—	therapeutic application, current problems, USSR studies... 6439
law... 15725	therapeutic use, Army technical bulletin... 166
reports... 12168, 12248, 16171	use in surgical practice... 807
railroad employees, increase—	see also Penicillin-ekmo.
hearings... 4660, 6075	Antibodies, see Antigens and antibodies.
law... 8513	Anticarsia gemmatilis, see Velvet-bean caterpillar.
reports... 5882, 7376, 7561	Anticorrosives, see Corrosion and anticorrosives.
views... 5882	Anticyclonic type weather in Bulgaria... 829
trusts, tax exemption, procedures and guides for qualification under internal revenue codes... 7872	Antidiscrimination, see Discrimination in employment.
see also Civil service pensions—Pensions.	Antigens and antibodies:
Annulment of marriage, see Marriage.	antibody formation, role of supranrenals in maintenance, USSR studies... 6489
Anunziata, Sister Maria, see Carbone, Teresa.	
Anodes, soluble, use in production of titanium, USSR study... 17639	
Anorthosite, alumina production, operation of experimental plant... 3838	
An-Shan, China, reports on municipality... 13142	
Antarctic regions:	
atmospheric circulation—	
characteristics... 872	
features, USSR study... 1943	
Coast Guard cutters for icebreaking, construct and equip—	
hearings... 15953	
report... 15844	
deep core drilling in ice... 16269	
meteorological regime of oases, and their effect on surrounding ice surface, USSR study... 1887	
scientific program of U.S. post IGY plans, hearing... 1553	
Soviet bloc IGY literature translations... 7892	
USSR weather reports by radio, Jan. 27 and Feb. 16, 1959... 13270	
Antarctica:	
maps and charts, annotated list... 8020	
operations, agreement with New Zealand... 4093	

	Entry
Antigens and antibodies—Continued	
changes in antigenic properties of animal tissues in ontogenesis, USSR study	12948
diffusional precipitation, study of staphylococcus toxin	5099
formation mechanism, modern concepts	3734
protein structure, changes under effects of ionizing radiations, USSR study	14940
Antigo, Wis., airport, dedication (address)	11815
Antihistaminic drugs, skin reaction in local irradiation by radioactive phosphorus, effect, USSR studies	6447
Antilles, waterborne commerce, 1958	16271
Antilles, Greater:	
light list	5763
sailing directions	4938
Antimony:	
cinnabar-stibnite ore, recovery of mercury by combined flotation-roasting process	3872
minerals yearbook chapter	16686
primary, production, etc., final figures, 1958	9343
primary, quarterly report	2789, 11333
secondary, 1958	10451
Antimony isotopes, Sb-125, radionuclide, occurrence in Rongelap Atoll soil	4333
Antitrust laws, see Trusts (industrial).	
Antiwaste, anticonservatism to speed up tasks for big leap forward in 1958, China	3663
Antofagasta, Chile, weather stations, agreement with Chile	4088
Antoniou, Alexander, relief	4674, 9813
Ants, fire, imported, eradication program, facts	7041
Aorta, role of aortotoxic serum injections in localization of pathological processes	819
Apache Indians:	
Use of judgment funds—	
law	15695
reports	14266, 16109
White Mountain tribe, lands in trust, report	14456
Apalachicola River, Fla., to Rio Grande, light list	5764
Apatites, geochemistry of uranium therein	518
Apheliscidae, early tertiary, compare with Phenacodaptus as pantoletid insectivores	13590
Aplaries, see Bees.	
Apion, subgenus Triclapion Wagner in New World, revision	17782
Aplite, minerals yearbook chapter	14994
Appalachian region:	
apples, costs of marketing	4181
hardwoods, heart rots	7814
livestock auction markets, methods and facilities	5547
oilfields, coring procedures with oil-base mud in area	3871
Apparatus for determination of surface profile	1685
Apparel, see Clothing.	
Appendicitis, death rates by age, color, and sex, 1949-51	13480
Apple juice, concentrate, 6-to-4, consumer preference	11636
Apple scald, control	5530
Apple-tree borers, life history, control, etc.	5539
Apples:	
Appalachian area, costs of marketing	4181

	Entry
Apples—Continued	
commercial production by varieties, comparisons	1258
deciduous fruits, foreign agriculture circulars	2643, 11182
McIntosh, experimental packing line, research report	13680
orchards, establishing and managing	4169
prices received by farmers, 1934-56, monthly and season average	9621
production, use, value, 1957-58	13688
recipes	11628
storage houses, heat leakage through floors, etc., study	17198
truck shipments in fiberboard boxes, loading methods	9574
virus diseases, United States and Canada	4160
wholesale and retail movement, weekly changes, measuring	15319
Application of radioisotopes in USSR industry	3750
Applied mathematics series, 8094-95	13457
Appointments, see Civil service—also names of persons appointed to office—also names of departments, etc.	
APPR-1, see Reactors (atomic).	
Appraisal, see Valuation.	
Apprentices:	
apprenticeship and training information releases	2317, 10764
apprenticeship and training representative, examination announcement	1499, 13880
apprenticeship for me?	5613
career patterns, survey results	7125
carpenters, training program of United Brotherhood of Carpenters and Joiners of America (address)	1964
electrical contracting industry, apprenticeship and training programs	8376
employment of learners, regulations pursuant to fair labor standards act of 1958	1222
need for training in new skills for changing technology (address)	10392
training program (address)	1965
Apprenticeship and Training Bureau, technical bulletin, T series	7125, 8376
Approach, naval aviation safety review	2187, 10644
Approach roads, Greenland 1955 program	12621
Approach to individual analysis in educational and vocational guidance	1591
Appropriations:	
executive, 1959, supplemental, proposal	4466
general Government matters, 1960—	
hearings	7453, 10026
law	11966
reports	7432, 9996
legislative, 1959, supplemental, proposals	4466, 12334
legislative, 1960—	
budget amendments, proposal	7337
hearings	8720, 8885
law	14031
reports	8671, 8869, 14239
legislative, 1960, supplemental, proposal	12339
statements, 85th Cong. 2d sess	1563
supplemental, 1959—	
hearings	5916, 6046
law	8515



# INDEX, 1959

Appropriations—Continued	Entry	Aptitude tests—Continued	Entry
supplemental, 1959—continued		Army personnel, validation of experimental self-description materials for general and differential classification.....	1241
proposals.....	5944, 8547	aviation cadet aircrew classification battery, long-term prediction of officer-effectiveness.....	5608
reports.....	5877, 7421, 7551	crew survival capability prediction, CREWSCAT problem form and manual, erratum.....	4265
supplemental, 1959 and prior fiscal years, proposal.....	4449	effectiveness in predicting success in—	
supplemental, 1960—		administration and machine accounting jobs.....	3002
hearings.....	9898, 12522, 16188	aircraft maintenance courses.....	1242
laws.....	14066, 15747	electronics repair jobs.....	1239
proposals.....	8547,	precision and automotive precision jobs.....	1243
9807, 12334-335, 12338, 15987		evaluation of experimental predictors for selecting Army helicopter pilot trainees.....	4127, 4120
reports.....	9880,	human engineering, aptitude testing, catalog of technical reports.....	3175
12488, 1429A, 15931, 16167		leadership, noncommissioned officers, criterion development.....	1244
temporary, 1960—		predictor, study of 2 non-linear methods of combining.....	11555
laws.....	11963, 12005, 14075	use in identifying fighters for combat.....	1245
reports.....	9879, 10011	Aquatic animals, metabolism intermediary.....	9050
year end Federal payroll periods, allocate to proper fiscal year accounts—		see also Marine fauna.	
hearing.....	8748	Aqueous solutions, see names of substances in solutions, e.g. Chloridea.	
law.....	12008	Arab Republic, United, see United Arab Republic.	
reports.....	8650, 10008	Arab world, economic development planning (addresses).....	2151
see also Government offices—also subjects, or names of departments, etc., for which appropriations are made.		Arabic language, transliteration table.....	3829
Appropriations Committee, House:		Aradidae, subfamily Callistinae, notes on National Museum collection.....	8109
hearings.....	3316,	Aransas National Wildlife Refuge, birds.....	3508
5908-16, 7444-55, 8719-21, 9893-98, 12274, 14329, 15988		Arapaho Indians: lands on Wind River Reservation, place in trust status, report.....	14443
reports.....	4628-32,	Oklahoma lands in trust, reconveyance by Interior Dept., report.....	8642
5866, 5876-77, 7416, 7431-32, 8640-41, 8671-72, 8686, 9879-80, 12183, 12208, 12262, 15898		Arbitration and small businessman.....	15185
Appropriations Committee, Senate:		Arcadia, Calif., Forest Service, air operations meeting Mar. 1959.....	12723
hearings, etc.....	6046, 7601-3, 880-85, 10024-29, 12521-522, 14547-548, 16188-189.	Archeology:	
reports.....	7551,	archeological research series.....	16964
8815-16, 8830, 8844, 8868-69, 9996-99, 10011, 10019, 12424, 12488-489, 14514, 16167.		data, threatened by construction of dams, preservation, report.....	8864
Apricots, production, use, value, 1957-58.....	9582	excavations at Colonial National Historical Park and Jamestown National Historical Site, Jamestown, Va.....	16964
Apsheron Peninsula, wind fields in Baku area, construction of charts, USSR study.....	6586	inter-agency salvage programs, papers—	
Aptitude tests:		departmental edition.....	4279
Air Force—		document edition.....	4428
enlisted manpower pool, estimates of levels, appendix.....	155	La Venta, Tabasco, excavations, 1955—	
officer qualifying test, validity in prediction of success in observer training.....	3123	departmental edition.....	5611
personnel, evaluation of potential air traffic control ability.....	8370	document edition.....	5759
personnel, interest measures, stability and their validation for selection and classification.....	13778	programs and areas, National Park Service, general information.....	13487
technical jobs, spatial abilities.....	7124	publications, price list.....	5378
airmen—		Arches National Monument, general information.....	3969
differences related to region of enlistment.....	156	Architect of Capitol:	
performance on aptitude test battery and classification battery AC-2A.....	11684	appropriations, 1960, legislative—	
selective index relation to performance in technical school.....	3121	hearings.....	8720, 8885
approach to individual analysis in educational and vocational guidance.....	1591	reports.....	8671, 8869
Armed Forces qualification test performance, evaluation of enlistment screening test for predicting.....	5470	budget 1960, amendment.....	8770
Army classification battery, prediction of success in—			
military police courses.....	2		
personnel and administration courses.....	3		
radio repair courses.....	1		
Army personnel classification, simplified regression patterns.....	9565		



# JANUARY-DECEMBER

	Entry
Architects, examination announce- ment.....	3209
see also Landscape architects— Naval architects.	
Architecture:	
Delta-Mendota Canal, design and construction, technical record.....	15176
effect upon shock spectra of dy- namic reaction of structures.....	5344
egg grading and packing plant de- sign.....	3021
PACAF basic bibliographies.....	7111
Potholes East Canal, design and construction, technical record.....	4044
Archives, Allied High Commission for Germany Combined Travel Board protocol.....	8247
Archibal, Elmo G., see Ibarra, Panta- leon.	
Arctic Construction and Frost Effects Laboratory:	
miscellaneous papers.....	384
reports, list.....	384
technical reports.....	3427, 7677
Arctic Ocean:	
lights and fog signals, list.....	7866
north, acclimatization of man liv- ing and working on ice does.....	12866
Arctic regions:	
Alaska, vegetation.....	7851
bibliography.....	14582
Coast Guard cutters for icebreak- ing, construct and equip—	
hearings.....	15958
report.....	15844
geology, summary of talks.....	9633
marine currents and ice drifts, automatic drifting radio bea- cons for conducting observa- tions, USSR studies.....	7928
Soviet bloc IGY literature trans- lations.....	7892
temperature effect of drilling well, dissipation.....	14748
weather prognoses, long range method of compilation, USSR.....	16604
Arctic Terrain Research Planning Sessions, objectives and pro- ceedings, summary of talks.....	9638
Arctic Wildlife Range:	
establish—	
hearing.....	14567
report.....	14208
ARDC, see Air Research and Develop- ment Command.	
Are you interested in working for Uncle Sam.....	8181
Area development act, see Unem- ployed.	
Area development bulletin.....	2318, 17080
Area generalization in topographic maps, Germany.....	3701
Area-intensity relationship at thresh- old for 3 stimulus durations in human fovea.....	10419
Area redevelopment act, see Unem- ployed.	
Area Redevelopment Administration:	
create—	
hearings.....	4737, 5922, 6049
reports.....	5992, 7426
views.....	5992, 7426
Area Redevelopment Advisory Board:	
create—	
hearings.....	5922
report.....	5992
Aresco, Agostino, relief.....	8803
Argentina:	
citrus fruit industry.....	3519
economic developments, 1958.....	7788
economy, basic data.....	455
establishing business.....	16419
import tariff system.....	468
labor in.....	16663

	Entry
Argentina—Continued	
sending gift packages to.....	17437
surplus agricultural commodities agreement.....	13626
Argus project weapon tests in space.....	9876, 9926
Arizona:	
agricultural conservation hand- book.....	7
airborne radiometric survey of southern California project, located in California and Ari- zona, summary.....	8402
census of governments, 1947, State bulletin.....	11775
climate.....	17154
climatological data.....	2993, 11546
desert areas, storage behavior of lemons.....	5548
electric rate book.....	16329
forest insect conditions, 1958.....	3582
home fruit garden.....	5536
mineral industry, minerals year- book chapters.....	1988, 16706
plane coordinate intersection tables.....	3243
precipitation data, hourly.....	2996, 11549
quicksilver district, geology of Ord Mine, Mazatal Moun- tains.....	508
snow surveys and water supply forecasts.....	2940, 11484
weather stations, decadal census.....	10636
Arkansas:	
agricultural conservation hand- book.....	8
Army and Navy General Hospital at Hot Springs National Park, conveyance—	
hearing.....	8890
law.....	15688
reports.....	8660, 9989
bauxite region, geology.....	7850
census of government, 1957, State bulletin.....	13831
climate.....	9545
climatological data.....	2993, 11546
farm supply co-ops, inventory man- agement.....	7687
minerals industry, minerals year- book chapter.....	928
northern, pre-Atoka rocks.....	14755
precipitation data, hourly.....	11549
Southwest, small woodlot owners.....	16450
Arkansas Post National Memorial, establish, report.....	15824
Arkansas River and Valley:	
drainage basins—	
snow courses and soil moisture stations, list.....	5411
snow surveys and water supply forecasts.....	11485
Arlington, Oreg.:	
land conveyance to—	
law.....	15713
report.....	16134
Arlington County, Va.:	
civil defense action guide.....	17294
land exchange—	
law.....	14051
reports.....	12215, 14482
memorial for Richard E. Byrd, National Geographic Society to erect—	
law.....	15655
report.....	16178
Arlington National Cemetery:	
burial of Unknown Americans of World War II and Korea, word-and-picture-stories.....	7133
Custis-Lee Mansion, extend grounds —	
law.....	14025
reports.....	8651, 12501
Armaments, see Munitions.	

# INDEX, 1959

	Entry
Armed Forces:	
Albania, military reports.....	576, 601
Armed Forces song folio.....	2482, 11014
Coast Guard and military departments personnel, claims resulting from use of Government property, authority to settle.....	5885
coffee in Army rations, military development and conversion to industry supply.....	5394
contingency option benefits for service dependents.....	7126
decorations and awards (poster).....	12586
digest of opinions of Judge Advocates General.....	2483, 11015
free importation of gifts—	
law.....	11986
reports.....	9857, 10005
ground troops, USSR, use of radar equipment.....	1987
housing insurance, administrative rules and regulations, under FHA sec. 803 and 809.....	7705
hymnal.....	6080
insignia (poster).....	8377
inventions wanted, list.....	1105, 9404, 10510
problems cancelled, list.....	16949
maintenance in Germany, costs, agreement.....	17099
maintenance in Japan, expenditures reduction, agreement.....	10606
medical journal.....	2491, 11024
supplement.....	2492, 11022
military and civilian industrial workers, eye protection.....	142
military mission, national plan for civil defense and defense mobilization.....	13876
numbering and coding of engineering drawings, etc., military standard.....	10060
officers, promotion and involuntary retirement, amend U.S. Code—	
hearing.....	12527
report.....	12472
ordnance supplies, lubricating and insulating oil, 1960.....	10068
personnel—	
dependents assistance act of 1950, extend—	
hearings.....	3318, 4735
law.....	5778
reports.....	3313, 4546, 4729
dependents medical care, annual report.....	11716
dependents, transportation allowances of escorts—	
law.....	14015
reports.....	4599, 12479
erroneous overpayments, waive indebtedness of recipient, report.....	14228
household goods, commercial warehousing services.....	8921
relief of members and survivors held as prisoners of war in Korean hostilities.....	5819, 5988, 7299
strength, suspension, extend act—	
hearings.....	3318, 4735
law.....	5778
reports.....	3313, 4279, 4546
procurement act, negotiated contracts, study, report.....	14331
procurement, competition requirements, hearings.....	16192
procurement procedures, amendments of 1950, hearings.....	16192
procurement regulations.....	16234
appendices.....	6081-82
revisions.....	1579-80, 3404, 4757, 7655, 8916, 10058, 12576, 16235, 17367
study, hearings.....	1544
serviceman, FHA home-buying information.....	1623, 16321
special rations.....	17062

	Entry
Armed Forces—Continued	
status of forces, NATO treaty criminal jurisdiction operation—	
hearings.....	14550
report.....	16183
surplus personal property, how to buy.....	7658
survivors' benefits, rates for contingency option act, Air Force pamphlet.....	5590
test administration, nonstandard, statistical methods for detection.....	5604
training bases, guide for visiting military students.....	17369
U.S. fighting man's code.....	15372
use against aggression in Middle East, 3d report.....	1528
USSR, important tasks for troops under CPSU seven year plan.....	16629
voting, information.....	8378
see also Reserve components of Armed Forces.	
Armed Forces Day, power for peace, 1959, DOD pamphlet.....	3131
Armed Forces Industrial College, see Industrial College of Armed Forces.	
Armed Forces Information and Education Office: DOD pamphlets.....	3131-32, 4280-81, 5614, 7126, 8378, 9648, 11694, 15372
poster.....	8377
Armed Forces Institute:	
catalog.....	11694
correspondence courses offered by colleges, etc., DOD pamphlet.....	4281, 9648
manual.....	1578, 5915, 14583
supply brief.....	10060
Armed Forces Supply Support Center, standardization manuals.....	12587-588
Armed services, see Armed Forces	
Armed Services Board of Contract Appeals:	
administration and operation inquiry, hearing.....	1543
digest of decisions, 1955-56.....	7656
Armed Services Committee, House:	
calendar.....	2447, 10978
hearings, etc.....	1541-44, 3318, 3320, 4633-46, 5917-20, 7456-57, 8722-23, 9899-9902, 12275-281, 14331, 15939-940, 17330.
investigations and studies, Defense Department procurement programs, etc.—	
authorization, report.....	3291
expenses, report.....	3302
organization, 86th Congress, proceedings.....	3317
reports.....	3313, 3319, 4470-71, 4579, 4581, 4584, 88, 4593, 4598-4601, 4621, 4729, 5860-62, 7358, 7401, 8652-60, 8724, 9856, 9862, 9903, 12064, 12162-164, 12171, 12178-179, 12184, 12239-245, 14206-207, 15782.
Armed Services Committee, Senate:	
calendar.....	2466, 10999
hearings, etc.....	4735-36, 6047-48, 7604-8, 10030-31, 12523-527, 14549-550, 16190-193.
investigations and studies, defense preparedness, authorization report.....	3358
reports.....	6026, 7502, 7557-58, 8810, 8817-19, 10007, 10009, 12447-450, 12467-473, 12479-480, 14491-494, 14504, 14537-538, 14540, 16000, 16123-125, 16185, 16187.

	Entry
Armed Services Medical Procurement Agency, memorandum report	4756
Armed services papers	3317-19, 4633-45, 5917-20, 7456-57, 8722-24, 9899-9903, 12275-281.
Armenian Soviet Socialist Republic: Academy of Sciences news, abstracts, physico-mathematical, natural, and technical sciences series	10833
scientific medical research, prospective plan	6621
scientific research, solar engineering development	3742
Armor, communications specialist, MOS proficiency test aid	3139
Arms, see Artificial limbs.	
Arms (firearms), see Munitions.	
Army:	
airfield pavement evaluation concepts, engineering and design manual	12609
airfields and heliports, engineering and design manual	12607
America's most versatile fighting force	4305
electric rate book	17408
Army and economic mobilization	6644
Army information digest	2319, 10765
index, v. 13	4282
aviation—	
air mobility, special bibliography	4301
Army aviation digest	2323, 10770
special bibliography	4300, 8387
career opportunities	7131
civilian personnel, dependents traveling to overseas areas, information, pamphlet	4296
contracts of \$1 million and over prime contractors, listing	2321, 10767
deployed forces, 1st line of defense, pamphlet	15387
employees wage determination, organization and policies	885
enlisted management program	7131
enlisted personnel evaluation system, military occupational specialties, proficiency test aid—	
air defense artillery automatic weapons crewman	4258
air defense artillery operations and intelligence assistant	4285, 17242
air defense missile crewman, Nike-Hercules	7128
armor communications specialist	3139
artillery communications	11698
automotive repairman	159
bridge specialist	11696
combat engineer	3138
field artillery operations and intelligence assistant	4286
flash ranging crewman	4287
radar repairman	11697
sound ranging crewman	1367
foreign language proficiency testing system, measurement and prediction of personnel speaking ability	9566
hand-to-hand combat, tactics, field manual	5617
hit kit for soldier shows	1236
hospitals, infirmaries, and dispensaries, medical facilities, electrical requirements, engineering manual	8959
information, pamphlet	4295
installations and major activities in continental U.S., list	1370, 8384

	Entry
Army—Continued	
Judge Advocate legal service, pamphlets	5622-24, 7129-30, 8379-82, 13782-786, 15386.
military personnel—	
dependents traveling to overseas areas, information, pamphlet ordered to—	4296
Caribbean, helpful hints, pamphlet	162
Germany, helpful hints, changes	3143
Hawaii, helpful hints, pamphlet	163
Southern European task force, helpful hints, pamphlet	15385
mission agreement with—	
Bolivia	9516
Colombia	9317
Ecuador	15206
El Salvador	5421
Nicaragua	17123
Paraguay	10601
nominations, 85th Cong. 2d sess., index	12330
noncommissioned officers leadership assessment, development of tests	1244
personnel—	
classification, simplified regression patterns	9565
dependents travel at Government expense, information pamphlet	5625
mentally marginal manpower utilization criteria development, survey of literature	1237
reporting for duty in Washington and vicinity, information guide	15377
validation of experimental self-description materials for general and differential classification	1241
procurement legal service, pamphlets	164, 1371, 3146-47, 4297-98, 5627, 8385, 11706, 13787, 15389, 17244.
procurement procedure	158, 3133-34, 4283, 7127, 15373-374.
progress, 1958, reports	4290
publications, price list	9458
recruiting journal	2185, 10642
register, Jan. 1, 1959—	
departmental edition	5630-32
document edition	5799-5801
research and development, contractors guide	15375
research and development series	11715
service schools—	
courses offered, catalog changes	160-161, 1368-69, 3140-42, 4290-93, 5618-20, 11699-702, 13781, 15378-383.
schedule of classes, NGB pamphlet	10507
tabulating equipment and Army medical statistics	15393
Transportation Environmental Operations Group reconnaissance of Greenland	5446
troop topics	7131
United States Army in World War II	6644.
8025, 13307, 16682, 17673	
see also Armed Forces—National Guard.—Shooting.	
Army-Air Force Wage Board, wage determination applicable to rate employees, organization and policies	885

# INDEX, 1959

	Entry		Entry
Army and Navy General Hospital: Hot Springs, Ark., conveyance to Arkansas—		Army Transportation Research and Engineering Command, re- search technical memoran- dums—	9532, 13649
hearing—	8890	Aromatic cachous, <i>see</i> Cachous.	
law—	15688	Aromatic compounds, electron para- magnetic resonance spectra with various substitutes, US- SR studies—	3725
reports—	8660, 9989	ARPA, <i>see</i> Advance Research Projects Agency.	
Army aviation, <i>see</i> Aeronautics.		Arrest:	
Army Aviation School, Fort Rucker, Ala., special bibliograph- ies—	4800-1, 8387	false, in shoplifting offenses in D.C., relief of store personnel, re- port—	7408
Army Chemical Center, Md., Chemi- cal Warfare Laboratories, CWL special publications—	4364	police detention prior to arraign- ment—	
Army contracts, <i>see</i> Government con- tracts.		constitutional aspects, hearings, errata—	336
Army Department:		prescribe time, hearings—	334
appropriations, 1960—		Arroyo, Pueblo, del, N. Mex., struc- tural explorations in Chaco Canyon area—	10583
civil functions—		Arts orientalis, arts of Islam and the East—	16453
hearings—	16188	ARS series—	41-51,
law—	15747	1277-82, 2 273-74, 3034-38, 4151-56, 5508-13, 7031-39, 8285-96, 9587-89, 11594-604, 13708-712, 15270-292, 17182- 186.	
reports—	12208, 15930-931, 16167	Arsenic:	
military construction hearings—	9895	minerals yearbook chapter—	10422
public works—		white, output, 1958—	6657
hearings—	7455, 10029	Art:	
law (H.R. 9105)—	15629	American National Exhibition, Moscow, selections, appraisal, hearings—	14358
veto (H.R. 7509)—	15773	catalogue of library of Thomas Jefferson—	9325, 13302
veto (H.R. 9105)—	15774	children's, international exchange, report of conference—	12597
Assistant Secretary, nomination of Courtney Johnson, hearings—	7606	oriental, Islam and the East—	16453
chiefs and executives, organization chart—	2184, 10641	USSR, control in Communist em- pire, consultation by Un-Ameri- can Activities Committee with Ivan P. Bahriany—	12317
civilian career opportunities—	15390	visual, graphics exhibits, displays, and supplementary services in- cidental thereto term contract—	17423
convey Philadelphia Army Supply Base facilities to Philadelphia, Pa.—		works and reproductions, catalog of copyright entries—	4752, 7649
hearing—	12526	works, free importation, hearing—	12532
law—	14041	works, liberalize tariff laws, report—	15825
reports—	12471, 14206	<i>see also</i> Paintings.	
field manuals—	1366, 3135-36, 5615-17, 13780, 15378, 17240A-241	ARTC, <i>see</i> Air Route Traffic Control Center.	
pamphlets—	159-	Arterial hypertension, <i>see</i> Blood pressure.	
164, 1367-71, 2321, 3137-47, 4285-98, 5618-27, 7128-33, 8379-85, 9649-51, 11696-707, 13781-787, 15378-389, 17242- 244.		Arteriosclerosis:	
posters—	8386, 11707	general, death rates by age, color, and sex, U.S. and each State, 1949-51—	13473
publications, price list—	9458	with heart disease, death rates by age, color, and sex, 1949-51—	15101
reservoir land acquisition policy of Army and Interior Depts., re- port—	7380	Arthropod-borne encephalitis, proce- dures for investigating out- breaks—	13558
semiannual report—	7662	Arthropoda:	
Specifications and standards, mili- tary index—	4284, 11695	bloodsucking, control with knap- sack sprayer developed P. G. Sergiyev and V. A. Nabokov, USSR study—	17642
technical bulletins—	164-167	mechanisms, evolution—	1173
technical manuals—	168-	Arthus-Sakharov phenomenon, course, effect of novocaine injections, USSR study—	6493
170, 1372, 3148-51, 4302-4, 5628-29, 7134-35, 8388-40, 9652-56, 11708-714, 18788-790, 15392, 17245-246.		Artichokes, market diseases—	8306
Army Engineer Research and Devel- opment Laboratories, releases—	2508, 11039	<i>see also</i> Jerusalem artichokes.	
Army Medical Nutrition Laboratory, Fitzsimons Hospital, report—	5633	Articles of Confederation, text—	4669
Army Medical Service:		Artificial limbs, child with missing arm or leg—	17289
formulary—	5628	Artificial satellites, <i>see</i> Satellites.	
medical science publication—	8391		
Army missions, <i>see</i> Military missions.			
Army National Guard, <i>see</i> National Guard.			
Army Nurse Corps, <i>see</i> Nurse Corps, Army.			
Army package power reactor, <i>see</i> Re- actors (atomic).			
Army reservist (periodical)—	2320, 10766		
Army specifications, <i>see</i> Military sup- plies.			
Army supplies, <i>see</i> Military supplies.			
Army Transportation Environmental Operations Group:			
report, 1958—	8260		
tropical transportation, investiga- tion—	17141		

# JANUARY-DECEMBER

Entry		Entry	
<b>Artillery :</b>		<b>Asia—Continued</b>	
MOS proficiency test aids—		southeast—continued	
air defense artillery automatic		tourist potential (text of ad-	
weapons crewman.....	4288	dress).....	3249
air defense operations and intelli-		tidal current tables, Pacific Coast.....	13897
gence assistant.....	4285, 17242	USSR territory, weather, general	
communications.....	11698	characteristics forecast, Apr.	
field, operations and intelligence		1958.....	1920
assistant.....	4286	see also East (Far East)—East	
Artillery Mountains, manganese ore,		(Middle East)—East (Near	
Maggie Canyon deposit, leach-		East).	
ing by dithionate-process pilot		Asparagus, culture.....	1209
plant.....	16729	Aspect-ratio, see Wings (aircraft).	
Artists, American National Exhibi-		Aspects of Government regulation and	
tion, Moscow, records, hear-		union responsibility.....	5320
ings.....	14358	Aspen :	
Arts and crafts, oriental, Islam and		bigtooth, debarking with 2,4-D	
the East.....	16453	amine salt.....	3570
Arts, Federal Advisory Council on, see		quaking, growth, specific gravity,	
Federal Advisory Council on		and chemical composition on	
the Arts.....		different soil types.....	9099
Arvidson, John A., relief.....	14387	Aspergilli, electrophoretic properties	
Asbestos :		of spores of <i>Aspergillus niger</i> .....	17805
deposits, reconnaissance in serpen-		Asphalt, sales, etc. 1958.....	10443
tine belt of northern Califor-		see also Roofing.	
nia.....	8027	Asphyxia, animals, effects on behavior	
industry, production, etc., 1958.....	8863,	and reaction of central nervous	
	15018	system.....	841
material survey.....	3840	Assateague Island, titanium minerals	
minerals yearbook chapter.....	14984	in heavy sand deposits.....	16731
Mines Bureau research program.....	15018	Assaying, USSR gold deposits, reduc-	
Ascension Island, Bahamas long		ing number of chemical analy-	
range proving grounds, agree-		ses.....	10271
ment with Great Britain.....	17125	Assessments, see Taxation.	
Ascorbic acid, see Vitamins.		Assets and liabilities, see Banks and	
Ash, Clare M., relief.....	4499, 13944, 14399	banking — Federal reserve	
Ash content, see Coal.		member banks—Property.	
Ashford, Wash., headquarters site for		Assistance, see Public assistance.	
Mount Rainier National Park,		Assistant secretaries, see, for depart-	
report.....	8805	mental assistant secretaries,	
Asia :		names of departments or names	
agarian reforms in Asiatic people's		of secretaries.	
democratic countries.....	563	Associated General Contractors, Inc.,	
agricultural machinery and equip-		Mountain Pacific chapter,	
ment survey.....	15457	NLRB decision (address).....	6815,
American-Asian understanding and			10512
cooperation, conference sum-		Associated Petroleum Carriers Corp.,	
mary.....	5416	motor vehicle accident.....	10205
central—		Association for Childhood Education	
hemorrhagic fever type.....	864	International, property in	
jet stream formation in atmos-		D.C., exempt from taxation.....	7589,
phere under influence of moun-			13965, 14132
tain masses, USSR study.....	1949	Association of Governmental Labor	
oil and gas prospecting problems.....	6429	Officials, see International As-	
scrub barrens.....	3670	sociation of Governmental La-	
crustal structure, researches in tran-		bor Officials.	
sition region, USSR studies.....	4982	Association of Oldest Inhabitants of	
general, research, studies currently		District of Columbia, see Oldest	
in progress, bibliography.....	1184	inhabitants of District of	
lights and fog signals, list.....	1718,	Columbia Association.	
	4935, 14770, 17497	Associations, see names of associa-	
south—		tions—also subject with which	
accessions list.....	2776, 11317	association has to do.	
mission on economic problems,		Astrakhan session of Academy of	
report.....	12485	Medical Sciences, USSR, on	
research, recently completed		problem of intestinal infec-	
studies, list.....	2143	tions.....	12042
research, studies currently in		Astronautics :	
progress, list.....	1188, 13600	and its applications, space hand-	
south and southeast—		book, staff report.....	1546, 4462
Colombo plan for cooperative eco-		print as document, report.....	4568
nomie development, report of		Instrumentation for research.....	17225
Consultative Committee.....	4074	meeting with astronauts, Project	
economic progress and human		Mercury, hearing.....	14354
dignity under Colombo plan.....	1196	scientific research in Defense Dept.,	
toward common goal, program for		report.....	15923
economic development (ad-		Astronautics and Space Exploration,	
dress).....	1179	Select Committee on, House :	
south, southeast, and east, United		committee print.....	1545
States trade.....	12719, 17447	hearings, summary, print as House	
southeast—		document, report.....	4569
research, recently completed		reports.....	1531-32
studies, list.....	2142	staff reports.....	4462-65
research, studies currently in			
progress, list.....	1182, 13599		



# INDEX, 1959

	Entry		Entry
Astronautics and Space Exploration, Special Committee on, Senate, see Space and Astronautics, Special Committee on, Senate.		Atlantic Coast—Continued	
Astronomers, examination announce- ment	5726	light lists—continued	
Astronomy:		St. Croix River, Maine, to Watch Hill, R.I.	5760
astronomic data use in determining mass and shape of earth	10262	Watch Hill, R.I., to Fenwick Island, Del.	5761
astronomical journal (USSR period- ical), abstracts	10781	West Indies	5763
geodetic, ephemerides and constants for solar eclipse, effects of errors, etc.	11672	oceanographic observations, 1957	9048
phenomena for 1961	3979	south, physical oceanographic, bio- logical, and chemical data	7755
publications, price list	6907	south, striped mullet, larval devel- opment, growth, and spawning along coast	3501
Soviet achievements	9200	southeastern, young jack crevasses (caranx species), study	10129
Soviet, selected periodical items	3644	storm warning facilities chart— Cape Hatteras to Brunswick, Ga., 1959	15239
Tashkent Observatory, USSR, de- scription	13271	Eastport, Me. to Montauk Point, N.Y.	7001
Astrophysics:		Manasquan, N.J. to Cape Hat- teras, 1959	5460
instrumentation for research	149-150	Montauk Point, N.Y. to Manas- quan, N.J., 1959	5461
Smithsonian contributions	1171, 2132, 8221-22 15190, 17077-78	transportation lines	1606
At the ramparts, United States Air Force Academy	11656	waterborne commerce, 1957	1607
ATC, see Air traffic.		see also Atlantic States.	
ATC manual	9631	Atlantic Ocean:	
ATEOG, see Army Transportation Environmental Operations Group.		eastern shores, wind change with altitude characteristics, USSR study	5115
Atheism:		north—	
Bulgaria, education of pupils, con- tent and forms of training	14946	ocean weather ships, agreement with Netherlands	2152
USSR, selected translations	9189-90, 10232-233, 10243, 14819, 14822, 14905, 16515, 16525-526, 16535, 17521-522, 17540	radio facility charts— 2310 2312,	10761
Atherosclerosis:		northwest, fisheries convention of 1949, protocol amending	6956
diet, hormones and atherosclero- sis, review of research grants	5316	south, Navy marine climatic atlas	3004
dietary induced, effect on content of adrenalin in urine, USSR study	6611	western, serranid fishes, genus Pikea, new species	2063
fish value in diet	424	Atlantic slope basin, see Atlantic States.	
patients, oxygen therapy, USSR study	6604	Atlantic States:	
prevention and treatment, USSR studies	1770	middle, fisheries, 1958, annual sum- mary	16370
Athletic goods, see Sporting goods.		middle, rainfall intensity-fre- quency	2176
Athletics:		north Atlantic slope basins—	
games held for benefit of crippled or retarded children, exempt from admissions tax—		Maine to Connecticut, surface water supply	522, 12775
law	15684	New York to York River, surface water supply	14761
reports	14234, 14534	surface waters, quality	12771
PACAF, basic bibliographies	3116	south Atlantic and Gulf Coast, strawberry culture	87
Atkins Yard, Iowa, railroad accident	14791	south Atlantic slope basins, Ogee- chee to Pearl River, surface water supply 1957	12776
Atlanta, Ga.:		south, fisheries, summary, 1958	12680
mail routes, schedule for region	2102	southeastern, zircon resources, dis- tribution, etc.	514
occupational wage survey— departmental edition	13286	see also Atlantic Coast.	
document edition	12036	Atlas, see Missiles.	
standard metropolitan area, hous- ing inventory characteristics, 1956	5703	Atlases:	
Atlantian (periodical)	2886, 11426	Alaska, Federal land withdrawals and reservations	8013
Atlantic Coast:		copyrighted, July-Dec. 1958	7648
American shad, migration patterns	3499	copyrighted, Jan.-June 1959	16233
coast pilot, supplements—		marine climatic, south Atlantic Ocean	3004
Cape Cod to Sandy Hook	4395	national atlas of United States, separate sheets	11606,
Cape Henry to Key West	4396	11611, 11622, 11812, 11851-859, 12797, 14749-753	16468
St. Croix River to Cape Cod	4394	list	16468
Sandy Hook to Cape Henry	5755	ATM manual	7688 15369A, 17238
current tables	13896	Atmosphere:	
light lists—		air-filter samples collected in 1957, radiochemical analysis	5346
Apalachicola River, Fla. to Rio Grande	5764	angular momentum, research on transfer, USSR studies	6601
complete	5758	atomic explosion influence, USSR study	14842
Fenwick Island, Del., to Little River Inlet, S.C.	5762		
Little River Inlet, S.C., to Apa- lachicola River, Fla.	5763		

# JANUARY-DECEMBER

Atmosphere—Continued	Entry	Atmospheric pressure :	Entry
baroclinic, small oscillations and adaptations of meteorological fields, USSR studies.....	3801	baroclinic, variations, survey.....	795
circulation over Antarctic, characteristics.....	872	barometric field near ground connection with distribution of heat and cold in troposphere, USSR studies.....	7904
density profiles, behavior.....	3114	calculating effect of nonlinear terms of equations in solution of problems on short-range forecast.....	1762
dynamics, numerical solution of equations.....	3788	ground pressure field, numerical and graphical prognosis, German studies.....	6421
earth's, entry of manned vehicles, oscillatory motion, study.....	6772	isobaric surfaces—	
electrons and negative ions production and removal.....	11674	forecasting geopotential heights, method for determination of local acceleration in changes of geopotential heights.....	3789
free-flight test of technique for inflating NASA 12-foot-diameter sphere at high altitudes.....	3933	morphological changes under experimental conditions, USSR study.....	12945
horizontal velocity divergence, USSR studies.....	5114	precipitation of pressure in middle troposphere for North Hemisphere.....	7939
ICAO standard tables and data, U.S. extension to 300 standard geopotential kilometers.....	2177	short range forecasting using high-speed computers, USSR.....	3648
isotropic turbulence, evaluation of methods for calculating symmetrical bending-moment response of flexible airplanes.....	6761	Atmospheric temperature :	
lead sulphide concentration in air, hygienic basis for protection, USSR study.....	12975	based upon radiosonde data for hydrological computations and forecasts, USSR study.....	6587
Leninrad, sulfur dioxide concentration seasonal variations and meteorologic factors.....	7950	calculating effect of nonlinear terms of equations in solution of problems on short-range forecast.....	1762
long-range ballistic missiles entry, method for simulating.....	9360	circulation features in Antarctic regions, USSR study.....	1943
mine, determining explosibility.....	9338	contrasts, jet streams and evolution of cyclones, interrelationship, USSR studies.....	1951
polluted, bactericidal effectiveness of sun rays.....	5127	formation of jet stream under influence of mountain masses in central Asia, USSR study.....	1949
protection, problems of planning and building of cities in Britain.....	7964	free fall and evaporation of JP-4 jet fuel droplets.....	16879
radioactivity.....		measuring, local acoustical method, USSR study.....	16624, 17631
AEC studies.....	8413	surrounding temperature effect on course of radiation sickness, USSR studies.....	6440
fallout, summary of new data.....	11745	yearly amplitude changes with altitudes over southern USSR, properties.....	1901
levels at Yokosuka, Japan, 1954-58.....	10540	Atomic batteries, miniature.....	13760
Naval Research Laboratory studies.....	5350	Atomic bombs :	
random disturbances, airplane response.....	5214, 9357	blast loadings, resistance of structural-platepipes to high overpressures, test.....	4315
rarified, endurance of animals affected by vitamin P, USSR study.....	7933	explosions—	
shape parameters of atmosphere diffusion and deposition patterns, alignment charts.....	189	damage to commercial and industrial buildings.....	1397
sulfur content in Southern States as related to crop needs.....	4197	fallout effects, bibliography.....	186
temperature, pressure, density, new standards, USSR.....	1953	influence on atmosphere, USSR study.....	14842
turbulence, evaporation, and varying rates of fall of fuel droplets.....	16906	ten for survival, survive nuclear attack.....	17295
turbulence measurements airplane upper—	9370	underground protective shelters blast effects, biology study.....	11753
research report.....	17802	underground, surface motion measurements.....	1398
rockets and artificial earth satellites, studies.....	13767	Atomic energy :	
statistical relations in layers, USSR studies.....	1883	accidents, 1958-58.....	13803
upper air climatology of United States—		act of 1954, amend—	
heights and temperature, extremes and standard deviations.....	1232	hearing.....	14101
vector winds and shear.....	7002	laws.....	9776, 15665, 15737
venting of hot gases through temperature inversions.....	4262	reports.....	7397, 7564, 15879-880, 16114-115
vortices, conditions in formation qualitative analysis, USSR studies.....	7905	AEC and other industrial installations, operations in management of radioactive wastes, hearings.....	12029
zonal circulation, preliminary characteristics.....	1939	summary-analysis.....	14104
see also Air—Ionosphere—Stratosphere—Troposphere.		agricultural research program progress report.....	190

Do not order from index; see indicated entry

Page 97

# INDEX, 1959

	Entry
Atomic energy—Continued	
aircraft engines application	4258
atomic energy (USSR periodical), abstracts	10782
code of Federal regulations	
cooperation for civil uses agreement with—	
Belgium	17871
Brazil	13631
China	13613
France	17868
Germany	17869
Iran	9514
Japan	4080, 6958
Switzerland	13619
Viet-Nam	13628
cooperation for mutual defense purposes, agreement with—	
Canada—	
hearings	12026
report	12161
text	15219
France—	
hearings	12026
report	12159
text	15216
Germany—	
hearings	12026
report	12156
text	17107
Greece—	
hearings	12026
report	12155
text	17121
Netherlands—	
hearings	12026
report	12157
text	17108
Turkey—	
hearings	12026
report	12158
text	17109
United Kingdom—	
hearings	12026
reports	12160, 12170, 12433
text	15215
cooperation in peaceful application, agreement with International Atomic Energy Agency	17120
development, Federal-State cooperation, selected materials	5786
dissipation by fast electrons, calculations and tabulations	16941
Egyptian Atomic Energy Commission creation, programs, etc., report, 1957	1377
engineering materials program, scope, guide	17265
Federal-State relationships, hearings	15751
fission products decay energy, literature search	15421
grant for procurement of nuclear research and training equipment, etc., agreement with Peru	17862
indemnity act operations, AEC, report	7316, 8419
hearings	12028
industrial installations—	
employee radiation hazards and workmen's compensation—	
hearings	17314
hearings, summary analysis	15750
selected materials	4422
health problems connected with work, USSR study	13156
industrial progress	4336
industry, development, growth and state, hearings	8524
legislation, Mar. 1958, list	5785
legislation through 85th Congress, 2d session, compilation	1509
levels derived from analyses of optical spectra, tables	1102

	Entry
Atomic energy—Continued	
level: of 36 Kr-82	3157
literature, 1947-59, catalog	7163
nuclear data tables, 1959	5657
nuclear energetics	1378
nuclear energy systems, anisotropic scattering in slabs, problems solved by numerical method	5291
nuclear levels and metastable states in decay of Yb-169	15403
nuclear power costs	13812
nuclear power, Government and industry (remarks)	5655
nuclear power reactor potentials, evaluation and analysis program (remarks)	17273
organic moderated reactors, small-sized (10-40Mwe), power economics	17267
patents, hearings	12027
patents, selected materials	5787, 7318
peaceful uses—	
application, inter-American symposium, proceedings	3167
Atomic Energy Commission research program for finding and encouraging (remarks)	5659
civilian program, comments of reactor designers and industrial representatives	1510
civilian use applications progress	173-175, 5644
Euratom agreements and legislation to carry out program, hearings, index	282
joint program agreement with EURATOM—	
hearings	7317
text	8237
marine insurance coverage for 3d party liability (remarks)	403
petroleum reservoirs and oil shale deposits (address)	6945
radioactive isotopes in petroleum industry	13766
training of specialists, in USSR, United Nations international conference—	5121
papers	3171
report by U.S. delegation	11758
plant expansion budget, appropriations, report	9845
plant expansion, etc., appropriations, 1958 hearings, index	3259
Poland, nuclear energy development, etc.	690
Polish-Czechoslovak conference of nuclear power specialists, proceedings	5119
problems of national defense and peaceful applications (address)	7162
production wastes, etc., use for generating electric power	3171
products, facts for industry, 1957, regulatory jurisdiction, cooperation with States—	7199
law	15737
reports	15880, 16114
research, Agricultural Research Laboratory, University of Tennessee, progress report, July 1-Dec. 31, 1958	7149
research, New Brunswick Laboratory, progress report, July-Dec. 1958	11729
role in world affairs (remarks)	9671
shipbuilding program, hearings	7473
space exploration, nuclear energy applications (paper)	17721
symposia in related fields, literature search	5649
uranium and thorium, current and long-term availability for development	15430

# JANUARY-DECEMBER

	Entry
Atomic energy—Continued	
use in naval propulsion, 1958, status, etc.	13795
utilization of scientific and technical information, minutes of international conference, May 26-29, 1958	11761
Y-12 plant accident, June 16, 1958, medical report on victims of radiation exposure	11733
Atomic Energy Agency, International, see International Atomic Energy Agency.	
Atomic Energy and Electronics, International Congress and Exhibition, see International Congress and Exhibition of Electronics and Atomic Energy.	
Atomic Energy Commission:	
activities in scientific education field (remarks)	9670
advisory committee members, serve without regard to conflict-of-interest statutes—	
law	15665
reports	15879, 16115
agreements for services, amend atomic energy act—	
law	15665
reports	15879, 16115
appropriations, 1959, increase—	
law	9776
reports	7398, 7563
appropriations, 1960—	
hearings	9893, 12521
law	14019
proposals	9806
reports	12183, 12250, 12489
atmospheric radioactivity studies—	
cataloging reports, corporate author entries	8413
construction appropriations—	
hearings	11743
law	8523
reports	11951
construction budget, authorizing legislation 1958, hearings, index	8866, 9845
engineering materials list, drawings, photographs, specifications	3259
engineering materials program, scope, guide	4323-27, 11741, 17264
facilities, industrial and radiation accidents, 1957-58	17265
indemnity act operations, report—	
hearings	13803
licenses with commercial suppliers, hearing	7316, 8419, 12028
procurement, small business participation, report	14101
programs for finding and encouraging peaceful uses for atom (remarks)	1565
releases	5659
report, semiannual—	2328, 10777
departmental edition	
document edition	4339
index	4667
make annual—	195, 9672
law	9775
reports	7397, 7564
reports abstracted in nuclear science abstracts, availability listing	11739
research reports	171-194, 1374-99, 3132-70, 4306-84, 5635-53, 7136-56, 8892-8417, 9657-69, 11717-756, 13791-812, 15394-436, 17247-272
price list	5662, 15442
rules and regulations	197, 4335, 11757

	Entry
Atomic Energy Commission—Con.	
summaries of physical research in—	
metallurgy, solid state physics, and ceramics	13802
physics and mathematics	11740
technical books published, 1947-59	
catalog	7163
transfer, hearings	7618, 10044
uranium procurement, domestic and foreign (remarks)	7157
welding conference, minutes of 7th annual meeting	4329
Atomic Energy Commission and Contractor Safety and Fire Protection Conference, proceedings	8411
Atomic Energy Community, European, see European Atomic Energy Community.	
Atomic Energy Joint Committee:	
hearings, etc.	282, 1509-10, 3259, 4422, 5786-87, 7316-18, 8523-24, 12026-30, 14101-105, 15748-751, 17314
membership, legislation, and publications, list	5785
reports	7397-98, 7563-64, 8866, 9845, 12155-161, 12170, 12433, 15879-880, 16114-115
Atomic Icebreaker Lenin, USSR	10327
Atomic physics, see Nuclear physics.	
Atomic power, see Atomic energy.	
Atomic power plants, see Nuclear reactor power plants.	
Atomic warfare:	
atomic weapons and anti-atomic defense, excerpts	852
biological and environmental effects, hearings—	
additional copies, reports	14323, 16057
excerpts	13804-808, 15422
summary analysis	14102
defense, in aviation, Yugoslavia studies	5132
medical service in mass attack, USSR	16613
officers work in process of planning naval combat operations, opinion	1863
Atomic weapons, see Weapons.	
Atomic world of affairs (remarks)	9671
Atoms:	
atomic phenomena occurring on and near surfaces of solids, investigations	4202
atoms for peace, USA at Geneva, 1958	11758
formation during radiolysis of hydrocarbons at temperature of 77° K, USSR studies	3726
nuclear energy and space exploration (paper)	17721
protector, destroyer, benefactor (remarks)	7158
radioactive, radiations from, compilation of information	5658
tagged, in study of plant nutrition and use of fertilizers, conference transactions	171
tagged, use in studying biosynthesis of chlorophyll	7138
tracer, application in microbiology, conference transactions	7137
Attachés, see Agricultural attachés—Labor attachés.	
Attachment:	
and garnishment of wages, etc., amend D.C. Code—	
hearings	9906
law	12016
reports	5892, 10013
Attack and defense (military science), see Military art and science.	



# INDEX, 1959

	Entry		Entry
Attack warning devices, <i>see</i> Warning systems.		Austria:	
Attenuation, neutron, in soils and concrete, shielding studies.	9657	certificates of airworthiness for im-ported aircraft, agreement.	9523
Attenuation coefficients, <i>see</i> Coefficients.		claims settlement under indepen-dence restoration treaty, agree-ment.	17102
Attenuation of electromagnetic radia-tion by sea water.	8152	electric power personnel mission to USSR.	13115
Attenuators, variable magnetic, utiliz-ing high-loss ferromagnetic materials as dissipative ele-ments.	13511	establishing business.	14689
Attorney General, <i>see</i> Justice Depart-ment.		exports and imports, licensing and exchange controls.	4882
Attorneys, <i>see</i> Lawyers—Public de-fenders.		guaranty of private investments, agreement.	2154
Aucella, succession, speculation, and utility of pelecypod for map-ping rock units in Pacific Coast region and Alaska.	7853	import tariff system.	4889
Auctions:		income tax, withholding regula-tions, convention.	3623
fruit, changing role.	8324	living conditions.	4887
livestock, application of packers and stockyards act.	3016	surplus agricultural commodities agreement.	15209
livestock markets in Appalachian area, methods and facilities.	5547	Auth, Ethel, relief.	4678
Audio level test panel.	1372	Autolysis, tissues, changes following irradiation, USSR study.	13260
Audio-visual education, public schools and library systems, key per-sonnel, directory.	3422	Automatic data reduction.	15359
Auditing:		Automatic pilots, <i>see</i> Aircraft auto-matic pilots.	
Federal agencies—		Automatic recording titrator.	11724
auditing authorizations, policy and procedures, GAO guidance manual.	1705	Automatic welding (USSR period-ical):	
guidelines, policy and procedures, GAO guidance manual.	1704, 12758	abstracts.	10783
<i>see also</i> for audit reports, names of corporations, etc.	7841,	Automatics (USSR periodical):	
Auditors:		abstracts.	7164
career opportunities, Housing and Home Finance Agency.	4933	Automatics and telemechanics (USSR periodical):	
examination announcements.	3204, 17297	abstracts.	8426, 10784
picking for your firm.	1169	Automation:	
Aula Oaak region, new ore manifes-tation of copper.	1777	and mechanization, POD develop-ments (address).	8169
Aureomycin, hydrochloride and gamma irradiation effects on meat preservation, tests.	8394	and technological change, hear-ings, additional copies, report, discrete systems, conference on the-ory and application, USSR study.	14281
Auroras:		effect on employment opportuni-ties—	7945
illumination, and radar reflections from them, relationship, USSR studies.	1764	departmental edition.	882
planetary distribution, USSR study.	12916	document edition.	301
radar reflections.	1763	effect on employment opportunities for office workers, occupational outlook summary.	9310
Soviet bloc IGY literature trans-lations.	7912	electronic machine for centralized control.	1822
Austenite:		production process in nonferrous metallurgy.	645
age-hardenable, foundry character-istics.	10537	rolling mills in nonferrous metal-lurgy.	651
corrosive cracking of austenitic steels and high temperatures and pressures.	1927	spinning process, economy points of view.	802
Austenitic joints, <i>see</i> Joints.		titanium-magnesium production, technical processes.	650
Austin, Clifford M., motor vehicle accident.	6337	translations from one language to another, Soviet developments.	6400
Australia:		use in post offices—	
canned deciduous fruit industry.	17432	Providence, R.I.	6892
economic developments, 1958.	7772	San Francisco Bay area.	15150
exports and imports, licensing and exchange controls.	3536	Washington, D.C., world's most mechanized.	8173
lights and fog signals, list.	1718, 4935, 14770,	wider use in mine ore industry, USSR.	656
olive industry.	6208	Automobile accidents, <i>see</i> Motor ve-hicle accidents.	
parcel post exchange, between U.S. Papua and New Guinea, agree-ment.	1200	Automobiles:	
pharmaceutical regulations.	14695	certificate of fitness to accompany sale transactions, hearings.	14342A
preparing shipments to.	3535	distribution in interstate com-merce, hearings.	12549
sailing directions—		excise tax, transfer portion to high-way trust fund—	
north and west coasts, change.	3614	hearing.	14557
south coast, change.	1721	report.	15886
southeast coast, change.	14777	exhaust gas air pollution in cities, control problems, USSR study.	7949
		financing legislation, hearings.	12554
		imports, comparisons with U.S. production and exports.	1668, 17449



Automobiles—Continued	Entry
Industry—	
administered prices, report, print	
additional copies, reports—	12512,
	14278
automobile industry (USSR pe-	
riodical), abstracts—	7165,
outlook for 1959 and review of	10785
1958	
public influence (address)—	1434
marketing practices, hearing—	331
Automotive tires, see Tires.	
Automotive transportation, see Motor	
carriers.	
Automotive vehicles, see Motor ve-	
hicles.	
Autonomy:	
China's national minorities and	
Peliping policy—	5013
Indonesia, laws relating to fiscal	
apportionment and regional	
government, text—	1821
Auxins, diffusion in bodies of man and	
animals—	5125
Aviation, see: Aeronautics—Aircraft.	
Aviation boatswain's mates, 3 & 2,	
Navy training courses—	15121
Aviation cadets—	
pay and retirement, reserve credit	
for service—	
hearing—	14549
law—	14052
reports—	4588, 4606, 4637,
	14504
Aviation fields—	
drainage and erosion control struc-	
tures, engineering and design	
manual, change—	4786
general provisions, engineering and	
design manual—	12607
pavements—	
evaluation concepts, engineering	
and design manual—	12609,
	14598
flexible, engineering and design	
manual—	1604, 3430
flexible, evaluation engineering	
and design manual—	12610
reports, engineering and design	
manual—	14599
rigid and overlay engineering	
and design manual—	12608
rigid, evaluation, engineering	
and design manual—	12611
Aviation fire control technician 2,	
Navy training courses—	6844
Aviation fuel, see Fuel.	
Aviation insurance, industry, hear-	
ings—	7637
Aviation machinist's mate 2, Navy	
training courses—	1121
Aviation storekeeper:	
1 & C, Navy training courses—	9426
3 & 2, Navy training courses—	8138
Aviation structural mechanics, see	
Mechanics (persons).	
Aviators:	
AFROTC student officers light plane	
training, evaluation—	11685
airline transport pilot rating, civil	
aeronautics manual—	4796
Army helicopter pilot trainees—	
evaluation of experimental pre-	
dictors for selecting—	4127, 4129
flight evaluation analysis—	1240
frequency of pilot proficiency	
checks, civil air regulations	
amendments—	17396, 17398
helicopter pilot and airplane pilot,	
fixed wing, examination an-	
ouncement—	4371
memorandum for aviators—	2667, 11206
naval, meteorology information—	3003
Navy wings of gold, naval aviation	
training—	15122

<b>Aviators—Continued</b>	<b>Entry</b>
pilot and instructor certificates, civil air regulations amendments	3441, 12632, 17395
pilot instruction manual	1613
pilot proficiency checks; frequency, civil air regulations amendments	16303, 16305
pilot training in visual flying, ATC manual	9631
pilot's philosophy for space age (address)	16307
standard aircraft taxi signals (poster)	11557
training, use of flight simulators for pilot-control problems	5296
<i>see also</i> Notice to aviators.	
Avocados, production, use, value, 1957-58	13688
Awards (arbitration):	
National Railroad Adjustment Board	5335, 6837, 8132, 9422, 13496-500
Awards (incentive), <i>see</i> Rewards (prizes, etc.).	
Axes and ax heads, trade agreement escape-clause investigation, report	8255
Axial flow, <i>see</i> Flow.	
Azerbaijani, Soviet Socialist Republic, medico-sanitary service for children, status, etc.	16610
Azimuth, determination according to method of F. N. Krasovskiy.	17646
Azov, Sea of, lights and fog signals, list	528, 4936, 12778, 17498
Azovskoye More, <i>see</i> Azov, Sea of.	
<b>B</b>	
B-58 crew rescue and firefighting handbook	7099
B.S.A., <i>see</i> Boy Scouts of America.	
Babies, <i>see</i> Infants.	
Bachelor's degrees, <i>see</i> Degrees (colleges, universities, etc.).	
Bacilli, anthrax, use of radioactive sulphur for production, USSR study	14861
Bacteria and bacteriology:	
atmospheric microflora, new device for investigating in USSR	1909
bacterial preparations, development of production during Soviet rule	1906
bactericidal significance of solar radiation penetrating room, USSR studies	1901
bacteriological investigations with Rechmenskiytype apparatuses, USSR practical evaluation	14948
bacteriological weapons, civil defense protective measure and methods, USSR study	7936
cells, bacterial connection between biochemical processes and structural elements, USSR study	16556
changes in bactericidal activity of blood serum and properdin system under effect of cortisone, USSR studies	6438
culturing, new method, USSR study	861
detection of micro-organisms in air, new device, Ukrainian USSR study	3800
eucalyptus decoction, antibacterial properties, USSR study	6614
filters from gelatin foam for bacteriological investigation of air, methodology of preparing, USSR studies	5038
filtrable forms of bacteria in air, USSR studies	5022

# INDEX, 1959

	Entry		Entry
Bacteria and bacteriology—Con.		Balance of power, shifting balance of	
forty years of Soviet sanitary bac-		world forces, selection from	
teriology.....	7962	statements, etc., of Nikita S.	
live bacterial vaccine, USSR		Khrushchev.....	15995
studies.....	9204	Balance sheets, <i>see</i> Finance.	
microflora of air in lying-in hospi-		Baling, <i>see</i> Packing.	
tal, detection with aerocentri-		Ball bearings, <i>see</i> Bearings (machin-	
fuge, USSR studies.....	5037	ery).	
nutritive and fermentative microbi-		Ball clay, <i>see</i> Clay.	
ology, research tasks in imme-		Ballistic missile early warning sys-	
diate future.....	12981	tem, <i>see</i> Warning systems.	
processed shrimp content.....	430	Ballistic missiles, <i>see</i> Missiles.	
radioisotope uses, list of refer-		Ballistic Research Laboratories:	
ences.....	9665	memorandum reports.....	6878, 13528
ultraviolet radiation to prevent		report.....	13529
droplet infections.....	831	Ballistics, hypervelocity problems,	
<i>see also</i> names and classes of bac-		facilities and instrumentation	
teria.		of NRL laboratory.....	8150
Bacterial warfare:		Balloons:	
weapons—		constant level, accuracy of RDF po-	
civil defense protective measures		sition fixes in tracking.....	146
and methods, USSR study.....	7036	constant-volume, environmental	
means of defense against them.....	659, 835	factors affecting altitude per-	
		formance and control.....	13517
<i>see also</i> Biological warfare.		high-altitudes—	
Bactericidal effectiveness of sun rays		in-flight development of long	
in polluted atmospheric condi-		train instrumentation pack-	
tions.....	5127	ages, equipment and tech-	
Bacteriologists, medical, examination		niques.....	150
announcement.....	4373	payload lowering device.....	149
Bacteriology, <i>see</i> Bacteria and bac-		operations at Air Force Missile De-	
teriology.		velopment Center.....	5595
Bacteriophage, phenomena, economic		Balsam fir, <i>see</i> Fir.	
task in scientific field, USSR		Baltic Sea:	
study.....	13248	lights and fog signals, list.....	7867
Badges of honor, <i>see</i> Decorations of		sailing directions.....	3613
honor.		changes.....	16479
Baffin Bay, sailing directions.....	6308	Baltimore, Md:	
Baffles (mechanics):		electric facilities of area, map.....	16335
annular inlet effect on stall, etc., of		occupational wage survey—	
axial-flow compressor in turbo-		departmental edition.....	3814
jet engine.....	16785	document edition.....	3270
Bagdad mine, block-caving mining		Bandages and bandaging, surgical	
methods and costs.....	8030	dressings, manufacture, earn-	
Baghdad pact:		ings, summary release.....	9296
cooperation agreement with—		Banding, mourning dove management	
Iran.....	6966	units, progress report.....	10141
Liberia.....	17128	Bands (music):	
Pakistan.....	6967	Metropolitan Police, retirement	
Turkey.....	6968	compensation for director—	
Bags:		law.....	15720
cellophane, growth and toxin for-		reports.....	8688, 16163
mation of B. botulinus type A.....	797	Bane, Frank, report on needs for	
paper, grocers, recommendation of		physicians for growing Ameri-	
trade, amendment.....	201	ca.....	17046
Bagulo Gold Mining Co., mining meth-		Rangs disease, <i>see</i> Brucellosis.	
ods and costs.....	10429	Bankhead-Jones farm tenant act, <i>see</i>	
Bahama Islands:		Agricultural credit.	
long range proving ground—		Banking, <i>see</i> Banks and banking.	
Ascension Island sites, adminis-		Banking and Currency Committee,	
trative arrangements agree-		House:	
ment with Great Britain.....	17125	calendars.....	2448, 10979
tracking station agreement with		funds, authorizing, report.....	4624
Great Britain.....	10590	hearings, etc.....	4647-
sailing directions.....	4938	48, 5922, 6055, 7458-59, 8725-	
Bahriany, Ivan P., consultation with		26, 9904-5, 12282-284, 17350-	
staff of Un-American Activities		351.	
Committee.....	12317	Investigation and studies—	
Balt shrimp industry of Gulf of		housing—	
Mexico.....	10133	authorization, report.....	3294
Baga California, vertical distribution		expenses, report.....	3304
of pelagic fish eggs and larvae.....	17428	reports.....	4595,
Baker, Melvin H., and wife, relief.....	12082	5864, 7426, 8667, 9872-3, 12176-	
Baker County, Oreg., forest statistics.....	3576	177, 12191-192, 12194, 14238-	
Bakeries, <i>see</i> Kitchens.		240, 15788, 15797-798, 15833.	
Bakery products, definitions and		views.....	4595, 7426, 8667, 12194
standards of identity, insert.....	4867	Banking and Currency Committee,	
Baking, <i>see</i> Cookery, —also names of		Senate:	
foods baked.		calendars.....	2467, 11000
Baku, Russia, wind fields, in Apshe-		hearings, etc.....	1567-
ron area, construction of		68, 3382-85, 4737-38, 6049-52,	
charts, USSR study.....	6580	7609, 8886, 12528-529, 14551-	
Balance equation and its use in nu-		555, 16194-196, 17350-351.	
merical forecasting of baric			
fields, Czechoslovakia.....	3723		

# JANUARY-DECEMBER

	Entry		Entry
Banking and Currency Committee—		Banks and banking—Continued	
Continued		Interlocking directorates under	
investigations and studies—		Clayton act, regulation.....	14643
housing, public and private—		laws relating to banking, compila-	
authorization, report.....	3363	tion.....	283
extension, report.....	3349	loans and discounts, farm credit	
matters within its jurisdiction,		banks and associations, annual	
authorization reports.....	3350, 3362	report, 1958.....	4791
publications, 83d-85th Congresses		loans for farm services at commer-	
reports.....	3349-50,	cial banks, suggestions for im-	
3380, 5992, 7547-48, 7571, 8829,		provement (address).....	3044
8866, 12408, 12427-429, 12452,		loans for purchasing or carrying	
14444, 14495, 14507-508, 16076-		registered stocks, regulations.....	3479,
77, 16080, 16084, 16096-97,		9010, 14664	
16099-100, 16145		mergers, regulations—	
views.....	3380, 5992, 7547-48, 12452	hearings.....	6052, 7640
Bankruptcy:		report.....	7548
act, amend—		views.....	7548
hearings.....	335	monetary statistics, 1958.....	6161, 9007
laws.....	7313,	mutual deposit guarantee organiza-	
9784, 11950, 11997, 12021, 15658		tions, tax exemption, report.....	15823
act, amend—		nonmember banks that maintain	
reports.....	4622,	clearing accounts with Federal	
5878-81, 7543, 8823-24, 9882-84,		reserve banks.....	2502, 11099
9995, 12230, 12459, 14205, 14515,		past, present, and future (ad-	
15802, 15804, 15835, 15870,		dress).....	16346
15883, 15892, 16072		savings accounts, individual invest-	
code of Federal regulations.....	6138	ments.....	3456-57, 4814, 14624
concealment of assets, amend U.S.		uninsured, FDIC assessment on si-	
Code, reports.....	7413, 16162	ducary deposits, eliminate,	
discharge, release bankrupt from all		report.....	12428
provable debts, amend act,		see also Banks for cooperatives—	
hearings.....	335	Federal home loan banks—	
false financial statements, limit use,		Federal intermediate banks—	
report.....	15870	Federal land banks—National	
railroads, amend sec. 77(c) (6) of		banks—State banks—also	
act, hearings.....	335	headings beginning Federal	
statistical tables, 1958.....	5472	reserve—also names of banks	
see also Referees in bankruptcy—		or places where located.	
Trustees in bankruptcy.		Banks for cooperatives:	
Banks and banking:		employees, clarify status—	
active banks in D.C., national and		hearings.....	8717, 8877
nonnational, abstract of		report.....	8848
reports.....	3252, 7276, 11873	farm credit act of 1959, report.....	7374
all-bank statistics United States,		Bar Association, Inter-American, see	
1896-1955.....	9006	Inter-American Bar Associa-	
assets and liabilities—		tion.	
all banks—		Barbers, ship's serviceman, hand-	
monthly report.....	2565	book.....	10531
semiannual reports.....	2563,	Barbiero, William J., relief.....	14169
11100, 11103		Barcelona, N.Y., harbor for light-	
commercial and mutual savings		draft vessels, wave action and	
banks.....	7702, 16314	breakwater location, hydraulic	
bank-SBA participation loan plans,		model investigation.....	17389
guide.....	2129	Barcroft, Lake, sedimentation.....	17083
banks supervised by FCA, audit		Bardstown Junction, Ky., railroad	
report, 1958.....	4444	accident.....	3639
code of Federal regulations.....	6138	Bardwell Reservoir, construction,	
consolidated condition statement—	11103	report.....	6034
consumer installment credit,		Bare Lake:	
monthly reports.....	2573, 11110	fertilizing, effects on growth and	
debts to demand deposit accounts.	2567,	production of red salmon.....	17427
4824, 11104		threespine stickleback life history.....	10130
deposits, demand, ownership.....	7729	Barges, refrigerated-cargo, self-pro-	
deposits, distribution by counties		pelled, diesel, steel, 190-foot,	
and metropolitan areas.....	1627	final report.....	13648
deposits of country banks.....	2281, 10733	Barite:	
hearings.....	6052	John Burdette barite-fluorite de-	
Federal deposit insurance act,		posit, Garrard County, Ky.....	10455
amend—		minerals yearbook chapter.....	14985
hearings.....	6052	production, etc., 1958.....	10450
report.....	7548	preliminary report.....	5195
views.....	7548	resources of U.S., production, use,	
Federal funds market, study.....	10107	etc.....	1711
Federal reserve, holding companies,		Barium, chemicals, production, etc., in	
etc., acts, compilation.....	12282	1958.....	10450
Federal reserve par list.....	16343	Bark, debarking bigtooth aspen with	
cumulative supplements.....	2559, 11096	2,4-D amine salt.....	3570
foreign operations under Federal		Bark beetles, see Beetles.	
reserve act, regulations.....	406	Barley:	
insured banks:		acreage, yield, etc., by States,	
offices insured by FDIC, list.....	4812	1866-1953.....	4192
changes.....	11069		
reports.....	4811, 14620		

# INDEX, 1959

	Entry		Entry
<b>Barley—Continued</b>		<b>Bauxite:</b>	
price supports, amend act—		deposits in Hungary, geology—	614
hearings—	7435	geology of Arkansas region—	7850
minority views—	7405	minerals yearbook chapter—	14986
report—	7405	Mines Bureau research program—	13345
<b>Barrels:</b>		production, etc., 1958—	15011
nonfat-dry milk, resistance to insect		report, quarterly—	2791, 11335
invasion—	4185	Turgay, technological methods of	
steel shipping, facts for industry—	2371,	processing—	648
5699, 10902		<b>Bayous, see names of bayous.</b>	
<b>Barrett, Bernard, relief—</b>	12083,	<b>Bays, see names of bays.</b>	
15569, 16037		<b>Beach erosion:</b>	
<b>Barrier materials:</b>		control projects—	
matched, water-vapor permeability		hearings—	12308, 14578
obtained by dry and wet		reports—	8712, 12174
methods—	4909	veto (S. 497, 85th Congress),	
vinyl plastic, microbial damage		analysis—	7481
prevention by use of biocides—	5366	Virginia Beach, Va., fill behavior	
<b>Barrow, Alaska:</b>		study—	17383
drilling well, dissipation of temper-		see also names of localities.	
ature effect—	14748	<b>Beach Erosion Board:</b>	
errata—	16464	bulletin—	3426
<b>Barter:</b>		technical memorandums—	8967-
operations of Commodity Credit		70, 10068, 17382-388	
Corporation—		<b>Beaches:</b>	
hearings—	5903, 12273	groins effect on rate of littoral	
minority report—	14262	transport—	17384
reports—	14262, 14289, 15919	San Francisco, Calif., sand drift,	
<b>Bartlett Experimental Forest, re-</b>		1956-57—	8970
search activities, etc.—	17453	seawall protection, suitability of	
<b>Bartlick, Va., dam across Pound</b>		beach fill and borrow channel	
River, designate, law—	14044	area, Harrison County, Miss.—	8967
<b>Baseball, organized professional</b>		<b>Beacons, see Radiobeacons.</b>	
teams, commercial activities,		<b>Beams:</b>	
limit applicability of antitrust		aluminum alloy, fatigue life, ran-	
laws, hearings—	338, 16214	dom loading effects, investiga-	
<b>Basic radio propagation predictions—</b>	2847	tion—	10490
<b>Basketball, organized professional</b>		box, structural behavior and maxi-	
teams, commercial activities,		mum bending strength of 6	
applicability of antitrust laws,		multiweb beams with 3 types	
hearings—	338	of webs, investigation—	9376
<b>Baskets, wastepaper, wood, Federal</b>		circular-arc monocoque vibration	
standard, cancellation—	12662	characteristics—	15079
<b>Basra locus, see Angélique.</b>		construction, structural stability	
<b>Bastnaesite:</b>		handbook—	16926
concentrate, extraction of rare-		fast-neutron currents, measurement	
earth elements—	9354	in NRL research reactor—	3987
separation of rare-earth elements		loading effect on water impact	
by ion exchange—	17713	loads and motions, hydrody-	
<b>Bathing suits, laminated, waterproof,</b>		namic theory—	3919
2-way stretch swim suit fab-		rider guidance system in presence	
rics, development and evalua-		of noise, effects of target and	
tion—	4100	missile characteristics on min-	
<b>Batholiths:</b>		imum miss distance—	6756
Mezole, of western North America,		sandwich, simply supported, non-	
lead-alpha ages—	511	linear theory—	17458
western, investigation (series)—	511	symmetrical-multiweb, structures	
see also Boulder batholith.		subjected to thermal stress,	
<b>Bathtubs, gel-coated glass-fiber rein-</b>		minimum-weight analysis—	17748
forced polyester resin, stand-		<b>Bean beetles, see Beetles.</b>	
ard of trade—	8431	<b>Beans, dry, prospects for foreign</b>	
<b>Baton Rouge, La.:</b>		trade—	3522
population, special census—	3187	see also Lima beans.—Soybeans.	
port—	8965	<b>Bear Creek Mining Co., shaft sink-</b>	
<b>Bats:</b>		ing methods and costs at Bur-	
American, revision of genera Eu-		gin Shaft—	6650
derma and Plecotus—	15098	<b>Bearings (machinery):</b>	
morphological basis of locative and		ball, instrument, friction torque	
ultrasonic abilities, USSR		testing, military standard—	10062
study—	16618	externally pressurized gas, stability	
<b>Battelle Memorial Institute, progress</b>		study—	4309
relating to civilian applications		journal, load-carrying capacity, in-	
of atomic energy during 1958—	173-	fluence of shaft deflection and	
	175	surface roughness—	15071
<b>Batteries, see Atomic batteries.—</b>		<b>Beaufort Fishery Laboratory, re-</b>	
Storage batteries.		search facilities—	6188
<b>Battle honors, see Decorations of</b>		<b>Beaumont, Tex., port—</b>	14602
honor.		<b>Beaverdam Creek, hydrologic budget</b>	
<b>Battlefields, Civil War, and mission</b>		of basin—	7861
66 (address)—	6831	Bed springs, see Bedsprings.	
<b>Battles, see names of battles or places</b>		Bedbugs, how to control them—	15313
where fought.		Bedding products, facts for industry—	9718
<b>Batukiewicz, Alicja Z., relief—</b>	12374	<b>Beds, see Bedsprings.</b>	
		<b>Bedsprings, facts for industry—</b>	2371,
			10902, 15475



# JANUARY-DECEMBER

	Entry		Entry
Bee, <i>see</i> Bees.		Bell, John J., nomination, hearing...	6058
Beech:		Belle Isle, Strait of, sailing directions...	6307
availability in Northeast.....	7805	Belts:	
beech utilization series... 1671, 6236, 7805		chapel, for use of Abelard Reynolds School no. 42, Rochester, N.Y., duty free entry.....	8519
pulping processes.....	1671	law.....	4580, 7676
suitable for turning on lathe.....	6236	reports.....	4580, 7676
Beech River, watershed, forest inventory statistics.....	5444	Beltsville energy-saving kitchen design.....	17197
Beechcraft Travel Air, accident.....	7227	Beltsville kitchen-workroom, with energy-saving features.....	96
Beecher, no. 3 claim, beryl deposits in pegmatite.....	16460	Beluga River coalfield, Alaska, reconnaissance.....	2012
Beef:		Benchmarks (address).....	3453
carcasses, economic effects of U.S. grades and standards.....	3069	Benefit series service, unemployment insurance.....	2498, 11029
freshly killed, rail road and piggy-back transportation.....	11633	Bengal, Bay of, sailing directions, change.....	4940
grading studies (remarks).....	28	Bennett, Elmer F., nomination, hearing.....	6064
herds, farm production, general information.....	1303	Benson, Ezra T., testimony on Administration farm proposals.....	7434
price spreads.....	5479	Bent, Lenora, relief.....	9760
purchase specification requirements approved by USDA.....	13691	Bent, Verentes, relief of estate.....	5046
retail price and value.....	15273	Bentonite:	
Bee cattle, <i>see</i> Cattle.		California bentonitic clay, evaluation for use in oil-well drilling muds.....	13368
Beehive coke, <i>see</i> Coke.		production, etc., 1958.....	13850
Beekman & Paul, Inc., <i>see</i> Paul & Beekman, Inc.		Benzene, distribution of acetic acid between solvent and soap micelles in benzene solutions.....	5342
Bees, two-queen colony management, honey production increase.....	4151	Benzole acid, ineffective on hardwoods.....	16451
Beetles:		Beplat, James A., relief.....	4532
bark—		Bering Sea:	
damage to California pine forests, 1959, danger and control.....	14735	chemistry of biogenous elements, USSR study.....	14849
ethylene dibromide sprays for controlling in California.....	16441	king crab, stomach contents analysis for determining food habits.....	10136
Black Hills, measuring trends of infestation.....	12751	salmon, experimental fishing to determine distribution, 1956.....	16389
Douglas-fir, damage control methods.....	16436	southeastern, currents and possible effects upon king crab larvae.....	10137
Engelmann spruce killed, rate of deterioration.....	12750	Berkeley Mine, mining methods and costs.....	6651
engraver, Douglas-fir damage.....	9090	Berlin, Germany:	
flour, laboratory evaluation of promising compounds as repellents to <i>Tribolium</i> spp.....	7062	chronology of political developments, 1945-56.....	8880
Japanese, quarantine revision.....	56	East—	
Mexican bean in East, control.....	90	gazetteer, official standard names list.....	12759
pine engraver, control with lindane.....	9089, 12747	labor force.....	13868
powder-post, in buildings, what to do about them.....	17195	economy, basic data.....	4874
scarab, of genus <i>Bothynus</i> in U.S.....	6816	since World War II, chronology, Army pamphlet.....	4295
Beets, market diseases.....	8306	situation, hearings.....	7604
Behavior:		special study mission report.....	14338
behaving like a success, address.....	17836	West—	
higher animals, role of interoceptors in formation, USSR study.....	17656	economic developments.....	7789
perceptual performance and effective person, psychological assessment and research study, errata.....	4269	economic statistics, handbook.....	2951, 11498
social interaction, dissonance, attempts to measure tolerance.....	3128	free world outpost, Army pamphlet.....	4295
<i>see also</i> Conduct of life.		living conditions.....	9078
Belgian Congo:		residence and business rights of aliens.....	4876
economy, basic data.....	1650	Soviet note demanding abandonment by United States, etc., analysis.....	2139
exports and imports, licensing and exchange controls.....	12717	Bermuda, sailing directions.....	4938
pharmaceutical regulations.....	10153	Berries:	
Belgium:		full flavor juice concentrates, preparation.....	1281
atomic energy cooperation for civil uses, agreement.....	17871	production, Soviet abstracts.....	740
citizens, instruction at Naval Academy—		<i>see also</i> names of berries.	
law.....	14038	Berry, Arthur C., and others, relief.....	14175
reports.....	12240, 12448	Bertagnollo, Pierre, relief.....	12381
double taxation, convention, text.....	12342, 17111	Berutich, Stirley L., relief.....	4542
economic development, 1958.....	7783		
economy, basic data.....	3533		
mutual defense assistance agreement.....	17126		



# INDEX, 1959

	Entry
Beryl:	
deposits, Beecher no. 3-Black Diamond pegmatite, Custer County, S. Dak.	16460
mining and development research, promotion, hearings	3330
Beryllium:	
facilities, health protection, experience, 10 years summary	1384
minerals yearbook chapter	14987
nonpegmatite, occurrence in U.S.	12770
polarization of neutrons from Li <sup>7</sup> (p,n)Be <sup>7</sup> reaction	15398
production, etc., 1958	2006, 10436
solid solubilities of iron and nickel content analysis of concentration gradients	1388
toxicity, literature search	11738
Beryllium fluorides and fluoberyllates composition, structure, etc., USSR study	17575
BES series	1600, 8950, 16262
Beta rays:	
flash tubes containing beta-ray-gun electrodes to guide electric discharge, examination	10536
gage for measuring thickness of thin magnetic tape	10549
measurements of <sup>35</sup> Br-82 and <sup>37</sup> Rb-82	3157
natural activity in human blood, USSR study	13266
Betatron, death of animals under 25-Mev betatron ray, pathological anatomy diagnosis, USSR study	10355
Bethel Baptist Church, Henderson, Tenn.:	
land conveyance—law	15621
reports	9970, 14181
Better business bureaus, see Business.	
Better quality cotton for expanded markets (remarks)	8283
Better teeth for life, fluoridation	6910
Between you and disaster, for your survival, a civil defense home food storage program	246
Beukenkamp, Radboud L., relief	8614, 9959, 11919
Beverages:	
bottled, prices and price indexes, 1957	902
supplies in retail stores, civil defense study	105
see also names of beverages.	
Bibliography:	
accident prevention	9634
advertising volume and expenditures	10580
aerodynamics, aeronautics, aircraft	9635
Africa	1191, 13603
aging	6302
agricultural education	12599
agriculture	10741, 2288, 2287
index, 1958	4301
air mobility and Army	2107
Alaska	17488
Alaska petroleum and oil shale	
alcohol production and use of agricultural crops as source of motor fuels	15288
American labor, reference material available for labor attaches	13279
American republics	1190, 13604
andalusite, kyanite, etc., United States	10188
applied physical anthropology in human engineering	11688
architecture, drafting, engineering	7111
Arctic regions	14582
arms and armaments	8365
Army aviation	4300, 8387

	Entry
Bibliography—Continued	
Asia	1184
Asia, south	1188, 13600
Asia, southeast	1182, 13599
athletics	3116
aviation career and scholarships	8036
boiling water reactors	15418
books for Indian schools	14781
boron and boron compounds	15420
brining and pickling of cucumbers, etc.	15293
British Commonwealth	1192, 13605
brucellosis in USSR	13461
building construction and maintenance	3951
cancer	17051, 17831
ceramics and refractories	15446
cermets	15445
chemical and petroleum plants, investment and operating costs, Jan.-Dec. 1957	9336, 14999
children in grades 4-6, selected references	4781
China	1181
civil aviation	4958
classification, Library of Congress	14976
clock problem in relativity	9434
communications and electronics	1355, 17227
communism, 56 informative government publications	15157
computers, 1937-58	9677
conservation of resources in government and industry	14585
containers and packaging	8218
criminology, law enforcement techniques and military law	5600
criticality studies	13800
crude oils analyses	16698
crystals	5604-65, 7168
cuthroat trout	1640
distribution data guide	2332, 10793
indexes	2331
documents of international meetings, 1953	14977
drugs and performance	13521
East Germany	16676
eclipse	11672
economic and social implications of scientific research and development	17787
education—	
comparative and international, studies	372
Education Office publications	16249
elementary	10082
PACAF basic bibliography	1356
retarded child	6091
rural and small communities	8948
selected references	4781, 8948, 10082
electrically exploded wire phenomenon	3115
Engineering Psychology Branch, reports	16981
Europe, eastern	1185, 13598
Europe, western	1186, 13601
executives, philosophy, problems, and practices	13674
external research lists	1180-
fallout effects from nuclear explosions	92, 13598-606
Far East	186
fatty acid tables, published sources of data used	1184
films, civil aviation	9591
fusion products decay energy	4958
floriculture and ornamental horticulture	15421
foreign affairs, research tools, guide	13677
foreign countries, statistical publications	1978
foreign languages in elementary school	2355, 10886
	8934

	Entry
<b>Bibliography—Continued</b>	
foreign trade of USSR with China.....	6499
foreign trade practice.....	12704
forest soils, Pacific Northwest.....	10178
forestry.....	4198
glass.....	9676
glaucoma.....	9467B
glue, glued products and veneer.....	6242
grading logs and trees for quality, 1955-57.....	7819
home economics and related fields.....	3076
human tolerance to rapidly applied accelerations.....	13433
hydraulic research.....	16940
hydraulics, tidal.....	8966
industrial process and space heat from nuclear reactors.....	17263
industrial uses of isotopes in indus- try, etc.....	17261
information services and public speaking and writing.....	7113
intelligence (military science).....	9636
international affairs.....	1189, 13606
international politics.....	2952, 11499
Iran.....	1188
Iraq.....	1188
irradiation effects on quartz and quartz crystal units.....	13579
Japan.....	1183
labor-management relations.....	7496
legal and medical.....	3117
Leningrad meteorology and hydrol- ogy.....	7923
mail order selling.....	9490
management and ecology of fish- eries.....	7753
management, excluding personnel.....	9637
marketing research procedures.....	15187
maternal disorders related to fetal stress, etc.....	17052
mathematics books.....	
mathematics teachers.....	8941
secondary school students.....	8943
medical reviews.....	13466
mental health.....	5318, 16945, 16948, 17777
meteorology and hydrology, USSR.....	845, 1884, 7907, 14843
meteorology, USSR scientific work.....	14850
Middle East.....	13602
military psychiatry, 1952-58.....	17053
mineral occurrences of New York State.....	16459
mineral resources, contributions (series).....	4921
missiles, rockets, and space in war and peace.....	17243
molten salts.....	9623
national directories for use in mar- keting.....	17843
Naval Research Laboratory series.....	9434
Near East.....	1187
new product development and sale.....	8217
nickel and cobalt metallurgy, 1900- 28.....	5188
Nigerian official publications, 1869- 1959.....	16678
North American geology, 1956.....	12764
nuclear explosions, peaceful uses.....	1753, 17262
nuclear fuel-breeding.....	13801
nuclear weapons development con- trol.....	8888
outer space law.....	4465
print as document, etc. report.....	4517
PACAF basic bibliographies.....	1355-57, 3116-17, 5600-1, 7111-14, 8365, 9634-38, 11676-677, 17227-228
Pacific area.....	11677
paper.....	16431
personal affairs and investment.....	17228
personnel literature.....	2403, 10932
personnel management and train- ing.....	9638
photography.....	7114

	Entry
<b>Bibliography—Continued</b>	
practical nurse education.....	3424
pressurized water reactors.....	9667
processes for removing hydrogen sulfide from industrial gases.....	13315
psychopharmacology, 1952-57.....	6915
psychopharmacology, 1952-57.....	6915
public management sources.....	2330
pulp.....	16431
pumped storage for hydroelectric power.....	9530
pupil transportation, selected ref- erences.....	6101
radiation from isotopes, detection.....	8404
radiation shields and shielding.....	11737
radioactive fallout.....	7154
radioisotopes.....	
agriculture.....	9665, 15419
animal physiology.....	7152
medicine and human physiology.....	192
physical and biological sciences.....	8405
rare earth spectra references, table.....	1102
rare metals for advanced weapons system.....	15365
reactor safety.....	4324
refractory metals and alloys.....	4323
religious books and chaplain ser- vices.....	11676
reprocessing irradiated fission reac- tor fuel and breeding mate- rial.....	9664, 9666
research and demonstration proj- ects, supported by Vocational Rehabilitation Office.....	13658
research and development.....	5672
research reports.....	2343, 10872
retail business, operating costs and ratios.....	13582
retailing.....	15188
rice research.....	15297
rootrot.....	1287
rootrot and related literature.....	8297
Russian periodicals.....	8019
St. Lawrence seaway, Great Lakes, etc., supplement.....	15180
San Joaquin Experimental Range.....	6239
school plant management.....	7672
scientific research and development, NSF projects, 1959.....	17788
selenium, geology, etc.....	4921
Service clubs, PACAF basic bibli- ography.....	1357
shrimp biology.....	9047
solids, surface phenomena.....	17008
soybeans, botanical aspects.....	13742
space exploration.....	7112
space law, Air Force pamphlet.....	4252
special bibliography series, Army Aviation School, Fort Rucker, Ala.....	4300-1, 8387
State curriculum guides for indus- trial arts.....	7667
State school administration, 1900- 57.....	10076
synthesis of diene elastomers by means of stereospecific cata- lysts.....	9447
synthesis of epoxy resins from bis- phenols.....	13536
talking books for the blind, 1953- 57.....	3828
tar, low-temperature.....	8028
teacher education, 5th year pro- grams.....	3417
teaching of secondary school math- ematics.....	8942
technical translations.....	2342, 10870
Tennessee Valley Authority, in- dexed, cumulative supplement.....	17139
thermoelectricity abstracts.....	16995-996
toxicity and other hazards of beryl- lum and rocket propellants.....	11738
transistors.....	11762
tree physiology.....	1702

# INDEX, 1959

	Entry		Entry
<b>Bibliography—Continued</b>		<b>Billy black lamb</b> -----	14780
TVA tributary, water shed activities-----	15230	<b>Bindery workers, women, examination announcement</b> -----	9735
uranium and thorium-----	17490	<b>Binding, see Public printing and binding.</b>	
uranium-bearing marine black shales in U.S.-----	510	<b>Bioassay, see Biological assay.</b>	
uranium geology (series)-----	510	<b>Biochemical problems in determining age of bruised animal tissue</b> -----	6116
USSR-----	1180, 13598	<b>Biochemistry:</b>	
meterology and hydrology-----	6375	blood coagulations, excerpts-----	3791
veneer-----	6242	humans and simians, comparative data-----	808
venereal diseases-----	2895, 11437	medical chemistry, next tasks in USSR-----	12869
visual cues in flight transition trainers-----	154	microorganisms, problems and prospects for development in USSR-----	12982
volatile corrosion inhibitors-----	17009	research in China, present and future-----	10258
Washington Metropolitan problems, 1948-58-----	6077	<b>Biochemists, 9th all-Union congress, USSR, program, etc</b> -----	14967
water, ground, artificial recharge-----	4932	<b>Biocides for strippable vinyl plastic barrier material</b> -----	5366
watershed management research in Southwest-----	3588	<b>Biodynamics, research at Air Force Missile Development Center</b> -----	5599
wholesale enterprise, operating costs and ratios-----	13583	<b>Biography:</b>	
wildlife refugees-----	9054	biography of ideal, diamond anniversary history of Federal civil service-----	1491
wood finishing subjects-----	482, 9095	labor attaches, biographic register-----	9145
wood preservation-----	9096	medical specialists of USSR, excerpts from Bol'shaya meditsinskaya entsiklopediya-----	6455
youth-----		Soviet-----	
activities-----	5601	mathematicians-----	3795
employment-----	5165	medical personalities-----	7924
see also names of departments, etc., issuing lists of publications.		scientists-----	808, 1935, 7930
<b>Bick Quon Wong, see Wong Bick Quon.</b>		scientists, directory-----	16555
<b>Bicycle tires, see Tires.</b>		scientists and engineers-----	17624
<b>Bicycles, Tariff Commission report.</b>	13636	women of 86th Congress-----	9563
<b>Biederman, Charles H., relief of estate</b> -----	14177	see also subjects of biographical sketches.	
<b>Big Bend Dam, plans, problems arising from construction, hearing</b> -----	7645	<b>Biological assay, chemical methods for routine bioassay</b> -----	7142
<b>Big Bend National Park, general information</b> -----	2070	<b>Biological products:</b>	
<b>Big Blue River, water apportionment, Kansas-Nebraska compact negotiation, consent of Congress, report</b> -----	16149	notices of activities of licensed establishments-----	2280, 10732
<b>Big Creek, Calif., electric facilities of area, map</b> -----	16339	Soviet pharmaceutical industry-----	1824
<b>Big Four fault system, geology and fluor spar deposits</b> -----	6282	see also Drugs.	
<b>Big game, see Game and game birds.</b>		<b>Biological sciences, see Biology.</b>	
<b>Big Sandy River:</b>		<b>Biological warfare:</b>	
flood control on Tug fork, engineer report-----		agents, hearings-----	12312
departmental edition-----	375	biological agents in war, Yugoslavia studies-----	5029
document edition-----	326	collective protection, engineering manual-----	4787
lock and dam no. 3, restoration, increase funds-----		defense, in aviation, Yugoslavia studies-----	5132
law-----	11964	means of defense against bacteriological weapons-----	659, 835
reports-----	8709, 9993	medical service in mass attack, USSR-----	16613
obsolete locks and dams disposal-----	11964	microorganisms in service of imperialism-----	7957
reports-----	8709, 9993	officers work in process of planning naval combat operations, opinion-----	1863
<b>Big Wood River, middle, ground water resources of area</b> -----	12774	research, report-----	14215
<b>Bigtooth aspen, see Aspen.</b>		what farmer should know in relation to livestock and crops-----	15508
<b>Bikini and nearby atolls, Marshall Islands (series)</b> -----	9110	<b>Biologically active substances given off by insects, USSR</b> -----	5126
<b>Bill of rights, see Constitution of United States.</b>		<b>Biologists:</b>	
<b>Billings, Mont., Indian reservation group, basic information digest</b> -----	1150	examination announcements-----	15522
<b>Bills (congressional):</b>		careers in research-----	3210, 15517
Agriculture Committee hearings on miscellaneous bills-----	17326	fishery and wildlife management-----	5725, 15517
armed services, hearings on miscellaneous bills-----	3319, 5919, 7456-57, 8722-23, 12276-279, 12281.	<b>Fisheries Instrumentation Laboratory offers new research tools</b> -----	10127
digest, 85th Cong. 2d sess.-----	2764	<b>Biology:</b>	
digest, 86th Cong. 1st sess.-----	11303	biological research assistants, examination announcement-----	11842
history, 85th Cong. 2d sess.-----	2443	biological sciences, USSR, 7 year plan and goals-----	14803
history, 86th Cong. 1st sess.-----	10974		
see also House bills—Senate bills—also subject of bills.			

# JANUARY-DECEMBER

Biology—Continued	Entry	Biology—Continued	Entry
chinook and blueback salmon and steelhead in Wenatchee River development, theoretical premise for raising level of medical and agricultural sciences, USSR study.....	14674	Soviet biological science, new conquests.....	10370
effect of ultraviolet radiation, USSR conference on.....	10512	space, research at Air Force Missile Development Center.....	5599
electron paramagnetic resonance, USSR spectroscopic study.....	12957	survey of Katmai National Monument.....	13589
extrapolational reflexes, significance in animals, USSR studies.....	3660	viruses, Poland.....	1877
general, Soviet abstracts.....	5077	see also Life.....	
Jupiter missile shot, experimental results, hearings.....	14353	Biophysics Laboratory, Institute of Biology, radiological research, USSR.....	7934
nuclear war effects, hearings—additional copies, reports.....	14323, 16057	Biosynthesis, chlorophyll, tagged atom method of studying.....	7138
excerpts.....	13804-808	Biphenyl, see Diphenyl.....	
summary analysis.....	14102	Birch:	
oceanographic, south Atlantic Coast.....	7755	sweet, silvical characteristics.....	6264
primary and tertiary blast effects in open underground protective shelters, study.....	11753	yellow—	
primary mechanism of biological action of radiation, USSR studies.....	10371	hardwoods, seed dispersal, Upper Peninsula of Michigan.....	14727
problems—		nursery stock development not affected by transplanting.....	17474
radiation, USSR study.....	14947	Birds:	
role of physics and chemistry, USSR study.....	12835	Aransas National Wildlife Refuge.....	3508
radiation and radioisotopes utilization in USSR.....	724	Bitter Lake National Wildlife Refuge.....	14670
radioactive radiation, principles of biological action.....	4345	Bosque Del Apache National Wildlife Refuge.....	3509
radioelectronics use in USSR, outcomes and prospects.....	17579	Cape Romain National Wildlife Refuge.....	14667
radioisotope utilization, literature search.....	8405	conservation notes.....	9052
reactivity, nature and classification, USSR study.....	14936	control devices, preventing damage to crops.....	14680
relation to peculiarities and problems of living organisms, USSR studies.....	6470	Delta National Wildlife Refuge.....	14671
shrimp, reference list.....	9047	feed the birds.....	8123
soil science, Soviet abstracts.....	10290	fossil, Pleistocene period in North America, review.....	4059
Soviet abstracts.....	718	Imperial National Wildlife Refuge.....	3512
720, 738-741, 743, 790, 1817, 1820, 1823, 1825, 1840, 1847, 1849-50, 3728-33, 3739, 3744, 3754, 3757-58, 3760, 3766-67, 3769, 3780, 3782-84, 5031-34, 5039, 5041, 5044, 5046-47, 5055, 5061, 5072, 5077-79, 5081-82, 5085, 5087, 5091-94, 6462-64, 6466, 6468, 6476, 6478-80, 6511, 6513-18, 6522, 6525-29, 6531-33, 6539, 6541, 6544, 6548, 6551-52, 6558, 6564, 6566, 6569, 6571-73, 10275-276, 10279-280, 10282, 10297-298, 10304, 10307, 10310-315, 1 0 3 1 7-3 2 0, 10323-324, 12998, 13001, 13005-10, 13012, 13018-19, 13022-24, 13031-33, 13035-36, 13038, 13041, 13043-45, 13049-55, 13058, 13063, 13065-66, 13070-79, 13082-83, 13085-93, 13095-96, 1 3 0 9 8, 13103-104, 13108-109, 13116-117, 13119, 13130, 13132, 13135, 13137-139, 13141, 13145-153, 13158, 13162-163, 13165, 13171, 13173-174, 13181, 13188, 13192-195, 13198, 13204-209, 13213, 13215-216, 13218, 13222-225, 13232, 13234-235, 14868, 14870-873, 1 4 8 8 0-8 8 1, 14890-891, 14898-899, 14902, 14906, 14909, 16562, 16565, 16572, 16584-585, 16587, 16589-591, 17580, 17588, 17593, 17595-596, 17598-600, 17603, 17612, 17616, 17620, 17623, 17627-628, 17630.			
		see also Game and game birds—Water birds.....	
		Birmingham, Ala., electric facilities of area, map.....	16341
		Birth:	
		blood loss in post-partum and early post-partum periods, use of placental blood, USSR study.....	6609
		by age of mother, live-birth order and color.....	1109, 16962
		child birth, analgesic and parturifacient effects of promedol and isopromedol, USSR study.....	9244
		natality, U.S., States, etc., 1957—registration in D.C., amend act, report.....	16136
		seasonal variations, United States, 1948-54.....	8119
		State population, 1950 census, corrections.....	15483
		Birth certificates:	
		District of Columbia, amend laws relating to fees for transcripts—	
		law.....	14033
		reports.....	12258, 12414



# INDEX, 1959

	Entry
Biscay, Bay of, sailing directions, changes.....	3611
Bismuth:	
minerals yearbook chapter.....	10423
production, etc., 1958, final data.....	9341
report, quarterly.....	2792, 11336
Bi-State Development Agency:	
compact creating, amend.....	15668
law.....	15801, 16164
reports.....	15801, 16164
Bitter brush, <i>see</i> Bitterbrush.	
Bitter Lake National Wildlife Refuge, birds.....	14670
Bitterbrush:	
plants can be propagated from stem cuttings.....	17477
variation in leader length.....	10164
Bitterroot Valley, soil survey of area.....	10589
Bituminous coal, <i>see</i> Coal—Coal mines and mining.	
Black bass:	
* Interstate transportation of live fish and eggs, clarify law.....	14060
law.....	12151, 14485
reports.....	12151, 14485
Black Diamond Claim, beryl deposits in pegmatite.....	16460
Black-eye peas, <i>see</i> Cowpeas.	
Black Hills:	
beryl deposit in pegmatite.....	16460
ponderosa pine—	
logs, amount and grades of lumber.....	16447
lumber recovery.....	7835
poisoning, peelability in relation to harvest dates.....	3581
Black Hills beetle, <i>see</i> Beetles.	
Black Hills National Forest, factors affecting direct-seeding, ponderosa pine.....	1696
Black Mesa, southwestern Colorado, range and watershed research program, report.....	17478
Black Pump Combine and other industrial enterprises in southeast sector of Cottbus Bezirk.....	862
Black Sea, lights and fog signals, lists.....	528, 4936, 12778, 17498
Black shale, <i>see</i> Shale.	
Black spruce, <i>see</i> Spruce.	
Black walnut, <i>see</i> Walnut.	
Blackland Prairie, soils, factors influencing swelling and shrinkage.....	13708
Blacks Mountain Experimental Forest, ponderosa-Jeffrey pine management, application of unit area control.....	7068
Blackstone River and Valley:	
flood control of basin, engineer report.....	1601
departmental edition.....	1562
document edition.....	1562
Blackstrap, <i>see</i> Molasses.	
Bladder, tumors of urinary bladder.....	8917
Blades:	
blade-element performance, transonic compressor rotor, experimental investigation.....	5238, 5240
compressor, systematic 2-dimensional cascade tests at low speeds.....	10465
compressor rotor, wakes and other flow phenomena examined with hot-wire anemometer.....	10472
compressor rotors of different chord length, comparison of performance.....	1019
double-circular-arc airfoil sections of transonic axial flow compressor rotor, investigations.....	2031, 2035, 2037
flame-immersed, use to improve combustion limits and efficiency of ram-jet combustor.....	13392

	Entry
Blades—Continued	
helicopter rotor—	
and propeller, equations of motion, errata.....	3882
effects of transition, etc., bending and torsional moments.....	8089
oscillations attributed to pitch-lag coupling description.....	3921
removals, study.....	6980
teetering, comparison of measured bending moments with pressure distribution.....	5293
multirotor helicopters, interference-induced velocities, study.....	9532
rotor—	
performance at reduced blade angle.....	3900
performance of 2-stage counter-rotating compressor.....	6716
transonic turbine designed for maximum suction-surface relative Mach number 1.57, investigation.....	979
rotor-blade-element performance.....	2035, 2037
rows, axial flow compressor, method for predicting off-design performance.....	15084
supersonic, differing in camber, investigation of blade-loading characteristics.....	16847
torsional deflection of supersonic-type propellers, measurement and calculation.....	1033
turbine—	
air-cooled, static sea-level performance of axial-flow compressor turbojet engine.....	6709
air-cooled, temperatures in turbojet engine up to 2580° R and altitudes of 50,000 feet, etc.....	6715
cooling, effectiveness of water injection from rotating injection orifices.....	3894
design.....	16795
effect of diameter of closed-end coolant passages on natural convection water cooling.....	1007
forced convection air-cooled internal strut-supported investigation.....	2032
gas, effect of thermal shock induced by external water-spray cooling.....	1006
heat transfer and durability data of improved designs.....	993
natural convection water-cooling, effect of blade-tip crossover passages.....	1008
return-flow, rotor, analysis of coolant flow.....	6722
rotor, transpiration-cooled, strut-supported, design.....	16790
spray cooling air requirements of corrugated-insert-type suitable for supersonic turbojet engine.....	2040
spray cooling in turbojet engine, investigation of water-injection configurations.....	972
stator, cermet, evaluation for use at elevated, gas temperatures.....	5283
transpiration-cooled, exploratory engine test.....	3891
transpiration-cooled, with shells of poroloy wire cloth, evaluation.....	9364
with various cooling-passage geometries, temperature drops.....	3897
Blaes, James H., relief.....	4514, 8793, 9767
Blaine County, Idaho, ground water resources of middle Big Wood River-Silver Creek area.....	12774



	Entry
Blaisdell, Irl H., relief of estate...	4508, 8792, 11884
Blakely Mountain Dam, general information...	6676
Blast, tertiary effects, displacement...	11754
Blast effects, <i>see</i> Explosions.	
Blast furnaces, top gas, gravimetric method of analyzing...	5209
<i>see also</i> Slag.	
Blasting, coal mines, special precautions for multiple short-delay blasting...	8034
<i>see also</i> Explosives.	
Blasting caps, <i>see</i> Detonators.	
Blasts, <i>see</i> Explosions.	
Blenders, fertilizer bulk blending plants, costs of operating, etc.	4105
Blight, <i>see</i> names of blights or plants affected.	
Blikas, Ourania B., relief...	13977, 14185, 14385
Blind:	
and visually impaired persons, vocational rehabilitation opportunities...	2172
facts on blindness in U.S.	17828
self-expression, protect through organizations, hearings...	7460, 8728
State aid under social security act, talking books for use, catalog, 1953-57...	17821, 3828
<i>see also</i> National Advisory Committee for the Blind—Presidential Study Commission on Problems and Potentialities of the Blind.	
Blind-made products:	
schedule...	199, 8423
changes...	2329, 4340, 13816
notice...	3172
Blindness, in U.S., facts on...	17828
<i>see also</i> Blind.	
Bilster rust, spread in Wisconsin during 1958...	17465
<i>see also</i> White pine bilster rust.	
Block caving, <i>see</i> Mines and mining.	
Block statistics in 1960 census...	6991
Blood:	
and hematopoietic organs, Soviet abstracts...	3769
biochemical values, changes due to X-rays, USSR studies...	6445
changes in polycythemia patients treated by radioactive phosphorus, USSR study...	12921
coagulation—	
biochemistry, excerpts...	3791
role of nervous system in regulating mechanism...	12947
collecting in USSR, two-stage methods...	610
drip transfusions, treatment of acute radiation sickness in dogs, USSR...	826
hemopoiesis, effect of small doses of radioactive phosphorus, USSR studies...	6446
human, natural activity of beta-radiation, USSR study...	13266
hyaluronidase and histamine content in persons exposed to ionizing radiation in industry...	622
ionizing radiation effects in relation to occupational harmfulness, USSR study...	13157
luminescence, effect of radioactive isotopes, USSR study...	10376
luminescent microscopy in X-ray irradiation, USSR study...	13253
morphological picture changes during radiation illness, USSR studies...	1865

	Entry
Blood—Continued	
peripheral—	
changes in composition in animals following total single X-ray irradiation, USSR study...	13251
pregnant animals, single X-ray irradiation effects...	822
placental, use for purpose of prophylaxis of blood loss in post-partum and early post-partum periods, USSR study...	6609
protein composition—	
kidneys, etc., following damage caused by heavy salts, USSR studies...	6594
role of suprarenals in maintenance, USSR studies...	6489
protein substitute, colloidal infusion, use in combined therapy of radiation sickness, USSR study...	3735
radiation sickness losses, complex therapy, USSR study...	14862
reaction to repeated X-ray irradiation, USSR experiments...	821
serum and properdin system, changes in bactericidal activity under effect of cortisone, USSR studies...	6438
serum proteins, under action of X-rays, changes against background of varied nutrition...	12960
stimulation of hematopoiesis in acute radiation disease, USSR...	624
storage, preservation medium and duration effect on survival rate of erythrocytes and length of time they circulate in organism of recipient, USSR study...	1915
substitutes—	
classification and designation USSR...	1767
problems of classification, USSR study...	6487
transfusions—	
incorporation of radioactive methionine 8-35 in organism of recipient reaction, USSR study...	5142
preserved blood collected by 2-stage method, USSR...	611
RH negative blood, prophylaxis in hemolytic diseases of newborn infants...	793
X-ray irradiation, influence on level of glucose and lactic acid in blood flowing into and out of brain, USSR study...	13259
<i>see also</i> Hemolymph.	
Blood pressure:	
hypertension—	
arterial, electro-sleep therapy, USSR study...	14875
characteristics at young age, USSR study...	6608
death rates by age, color, and sex, 1949-51...	13472, 15103
etiology and pathogenesis, current views, USSR...	1893
patients, effect of oxygen therapy on cerebral circulation, USSR studies...	6605
stable, of neurogenic nature, method of producing in dogs, USSR study...	5120
Blood transfusion, <i>see</i> Blood.	
Blood vessels, vascular reactions, sensitivity of acoustic analyzer for hard of hearing children by registration...	7931
Bloodsucking arthropoda, <i>see</i> Arthropoda.	

# INDEX, 1959

	Entry		Entry
Blount County, Tenn., soil survey	15194	Bolling, heat transfer	15397
Blowers, facts for industry	2372, 5691, 10903	Bolling water reactors, <i>see</i> Reactors (atomic)	
BLS report series	5167, 6629-30, 14971, 16656, 17667	Bolla, fish furunculosis	3505
Blue collar workers, <i>see</i> Government officials and employees		Boise National Forest: addition of lands—law	11979
Blue Mountains, lodgepole pine	3579	reports	5900, 8855
Blue Ridge Parkway, general information	10524	Bolivar County, Miss., soil survey	5415
Blue Star Mothers of America, Inc., incorporation, report	7505	Bolivia:	
Blueback salmon, <i>see</i> Salmon		Air Force mission agreement	9516
Blueberries, canned, standards for grades	13704	Army mission agreement	9516
BMEWS, <i>see</i> Warning systems		living conditions	461
Boales, M. E., relief	5822	sending gift packages to	16400
Board of Regents of Smithsonian Institution, <i>see</i> Smithsonian Institution		Boll weevils, ecological investigations, Tallulah, La., 1915-58	15334
Board of Trustees of Federal Old-Age and Survivors Insurance and Disability Insurance Trust Fund, report, 1958	12046	Bollworms, control of corn earworm in sweet corn, 5 year research— <i>see also</i> Pink bollworms	7032
Boards (lumber), <i>see</i> Lumber		Bol'shaya meditsinskaya entsiklopediya, USSR, excerpts	6455, 9260
Boards (organizations), <i>see</i> names of boards— <i>also</i> subjects with names of departments, etc., with which boards have to do— <i>also</i> subjects with which boards have to do, e.g. Vocational education		Bolts (lumber): heating rates for logs, bolts, etc., to be cut into veneer	17455
Boards of health, <i>see</i> Health boards and departments		Bombing airplanes, <i>see</i> Airplanes	
Boards of inquiry, report to the President on labor dispute in steel industry	17819	Bombs:	
Boards of review:		free-falling, variation in range due to atmospheric density variations	3114
Judge Advocates General, court martial reports, holdings and decisions	4760	release at Mach number 1.62, wind-tunnel investigation	6727
citators and index	6084	store motions during release of ejection, prediction techniques	6740
Boating:		Bonding, diffusional, fundamentals, progress report	15417
accidents reporting, rules and regulations	11862	Bonding materials:	
safety promotion act, extend effective date, reports	15846, 16118	atoms adsorbed and held on surface by mono-electron and bi-electron	9264
safety, suggestions, highlights of Federal boating act of 1958, etc.	3246	isostatic, of various metals and alloys at elevated temperatures	7151
Boats, <i>see</i> Fishing vessels—Harbor craft—Ice breakers—Motorboats—Ships—Submarine boats		surface treatment effect on adhesive bonding properties of magnesium	484
Boatswains, <i>see</i> Aviation boatswain's mates—Boatswain's mates		Bonds:	
Boatswain's mates:		prices	2588, 11125
1 and chief, Navy training course	3980	TVA financing program	17879
3 & 2, Navy training course	17795	<i>see also</i> Bonds of United States—Guaranties and sureties—Savings bonds	
Boczar, Yadviga, relief	13957, 14184, 14372	Bonds of officers, etc.: comptroller of Currency and deputies, increase requirements	
Bodcan, La., railroad accident	16500	hearing	16194
Bodies (aerodynamics), <i>see</i> Aerodynamics		law	14089
Body (human), <i>see</i> Anatomy		reports	12191, 12227, 14508
Body temperature, Air Force crews, dry and wet clothing, effects on subjects at low air temperatures	7123	Bonds of United States:	
Boggs, Gannon, relief	7353, 13942, 14391	2% percent treasury bonds, exchange for FNMA-owned mortgages	16325
Bogotá, Colombia, weather stations, agreement with Colombia	10608	4 percent Treasury bonds—1969	6985
Bohol Islands, sailing directions	17499	1980	4113
Boiler fireman, <i>see</i> Firemen (stokers)		liberty loan acts, compilation	17320
Boiler shops:		mortgage loans held by FNMA, exchange for Treasury bonds, opposing—	
boilershop-products industry, injuries and accident causes—departmental edition	3811	hearing	8886
document edition	3267	report	12452
Boilers:		views	12452
high-temperature materials, conference, USSR, studies	5080	Treasury bond issues, remove interest rate ceiling, hearings	8764
power, industry, outlook for 1959 and review of 1958	1447	Bone marrow, <i>see</i> Marrow	
power, steel, facts for industry	7211	Bones:	
		regeneration, ionizing radiation effect, USSR	617
		tissue regeneration—effect of neurotropic substances in acute radiation sickness, USSR study	10382
		subsequent to fractures in combination with radiation disease	1768

## JANUARY-DECEMBER

	Entry		Entry
Bonin Islands, Japanese national claims, payment, report-----	12513	Boric oxide: deposits on jet-engine surfaces, equilibrium thickness study-----	1017
Bonita, Pueblo, expedition, report of findings-----	10583	vapor pressure, influence on calculated combustion performance of pentaborane-----	1009
Bonner, Herbert C., portrait, presentation to Merchant Marine and Fisheries Committee, House, proceedings-----	1514	Boring insects, <i>see</i> names of insects.	
Bonneville Power Administration: appropriations, 1960, public works, hearings-----	8721	Boron: and boron compounds, chemistry, literature search-----	15420
generation and sales statistics—calendar year 1958-----	5661	from crucible refractories, effect on complex heat-resistant alloy-----	8073
fiscal year 1959-----	15438	high energy fuels investigation—hearings-----	15900
power transmission, proposed interchange with facilities in California, hearings-----	8894	report-----	15932
Bonneville project, act of 1937, amend, hearings-----	10054	minerals and compounds, production, etc., 1958-----	10440
Bonus (military): code of Federal regulations-----	4822	minerals production, etc., 1958, preliminary report-----	3868
Bonus system, fulfillment of profit plan as indicator for awarding to management, etc., in industry in Bulgaria-----	1749	minerals yearbook chapter-----	14988
Book covers, duty free importation by institutions, report-----	14218	Mines Bureau research program, 1960-----	15009
Book lists, <i>see</i> Books.		slurries in octene-1, combustion performance for range of inlet temperatures and pressures-----	905, 1009
Book paper, <i>see</i> Paper.		Borrowing, <i>see</i> Loans.	
Bookbinders: examination announcements-----	3216	Bosque Del Apache National Wildlife Refuge, birds-----	3509
discontinuance notice-----	3223	Boston, Mass.: electric facilities of area, map-----	16335
Bookbinding, duty free importation by institutions, report-----	14218	naval shipyard land, transfer to Massachusetts port authority-----	
Bookkeeping, students study guide-----	8915, 14583	hearing-----	12526
Bookkeeping machine operators and unit supervisors, examination announcement-----	5734	reports-----	12164, 14494
Books: copyrighted, catalog of copyright entries-----	8911, 17363	occupational wage survey—departmental edition-----	5171
Federal supply schedules-----	417, 7734	document edition-----	4432
Library of Congress—author catalog-----	2773, 11313, 14979	standard metropolitan area national housing inventory, 1956, characteristics-----	4363
subjects, catalog-----	2769, 11309, 17672	Boston & Maine R.R., accident-----	3638
mathematics teachers, list-----	8941	Boston National Historic Sites Commission: appropriations, 1960, proposal-----	12340
publishing industry, outlook for 1959 and review of 1958-----	1437	extend time for completion of work-----	
religious, PACAF basic bibliographies-----	11676	law-----	12017
research, unlocated, L.C. list-----	909	reports-----	8665, 12456
USSR Academy of Sciences, brief reports on publications-----	6623	report on Lexington-Concord Battle Road—print additional copies, report-----	7424, 5809
Books (talking), <i>see</i> Talking books.		text-----	12110,
Boone County, W. Va., Hershaw coal, carbonization, properties and petrographic composition-----	6666	Boswell, Barbara M., relief-----	15590, 16030
Boosters (ordnance): fuselage-mounted rocket boosters, influence on flow field at inlet and diffuser performance of strut-mounted engine-----	966	Bot flies, <i>see</i> Flies.	
Boots and shoes: Federal supply schedule-----	4837	Botanic gardens, <i>see</i> National Botanic Gardens.	
footwear and leather series, report-----	4038	Botany, regional botanical geography of China-----	13189
industry in Puerto Rico, findings of fact and recommendations-----	10633	Bothnia, Gulf of, lights and fog signals, list-----	7867
shoe industry trade, outlook for 1959 and review of 1958-----	1405	Bothynus, <i>see</i> Beetles.	
shoes and slippers, facts for industry-----	2371, 10902	Bottles: drift, study to deduce surface circulation in Gulf of Maine-----	3498
Borates, <i>see</i> Sodium calcium borate.		drift, use in surface current studies, Saginaw Bay and Lake Huron-----	6194
Borden County, Tex., Horseshoe Atoll, geology-----	14756	Botulism: clostridium botulinum C <sub>9</sub> toxin stability, contribution to knowledge-----	3680
Border sentinel (periodical, in English and Spanish)-----	2887, 11427	growth and toxin formation of type A in cellophane bags-----	797
Boreholes, drilling with small diameter bits, experimental results of work, USSR study-----	6582	USSR study-----	6453
Borenstein, Balbina, relief-----	4679	Boulder batholith: exploration drilling, 1954, Jefferson and Silver Bow Counties, Mont-----	11734
Borenstein, Rachel, relief-----	12352	mineralogy of uranium-bearing deposits in Montana-----	8400

**Do not order from index; see indicated entry**

Page 113

# INDEX, 1959

Boundary layer :	Entry	Boundary layer—Continued	Entry
blade-outlet, characteristics of stator blade for high subsonic Mach number turbine, comparison of results of studies.....	5246	flows, magnetohydrodynamic aspects.....	6791
boundary layer and force measurements on slender cone-cylinder body of revolution, aerodynamic theory.....	2027	fuselage, internal performance at Mach numbers to 2.0 of 2 immersed auxiliary inlets.....	6702
characteristics, nozzles having radial flow in divergent part.....	3918	hypersonic flow field over blunt flat plate, effect of leading-edge sweep and surface inclination.....	2053
characteristics of 6-percent-thick symmetrical circular-arc airfoil having 30-percent-chord trailing edge flap at Mach number 6.9.....	13422	internal aerodynamics, source distribution method obtaining flow perturbations due to small area variations, mass, momentum, and heat additions.....	10493
compressible laminar, over yawed infinite cylinder with, heat transfer and arbitrary, Prandtl number.....	8068	internal scoop, performance of supersonic ramp inlet with.....	985
compressor flow theory and experiment.....	1067	compressible, solutions of equations with transpiration applicable to stagnation regions of axisymmetric blunt bodies.....	13446
control.....		compressible, some finite difference solutions showing effects of upstream transpiration cooling.....	3936
air load distributions on flapped wings.....	1073	compressible, with heat transfer and arbitrary pressure gradient, charts and tables for estimating stability.....	9377
blowing, on leading- and trailing-edge flaps.....		damping of oscillatory waves.....	17387
full-scale wind-tunnel tests.....	16919	interaction with oblique shock wave.....	5287
investigations.....	15073	leading-edge area-suction flap use to improve high-lift characteristics of airplane model.....	959
blowing on 35° sweptback-wing airplane, investigation of jet flap in conjunction with plain flap.....	5289	low Prandtl number solutions for forced and free convection.....	5294
blowing-type, as applied to trailing-edge flaps of 35° swept-wing airplane.....	5217	main-inlet bypassing to supply airflow to ejectors at supersonic speeds.....	5247
effects on engine performance of using turbojet engines as pumps.....	16787	nose inlets, compressible flow about axially symmetric isentropic spikes at Mach number 3.85.....	16782
high pressure blowing over flap and wing leading edge.....	1072	separated flows in supersonic and subsonic streams.....	950
internal systems, side-inlet at Mach number 2.96, investigation.....	5236	transition.....	
investigation at Mach numbers 1.41, 1.61, and 1.82 of 2 variable-geometry inlets having 2-dimensional compression surfaces.....	5250	and heat transfer, hemisphere-cylinder in free flight.....	16850, 16852
methods of improving diffuser-exit total-pressure profiles for side-inlet model at Mach no. 3.05.....	6710	at supersonic speeds.....	16792
rectangular supersonic scoop inlet with swept sides designed for low drag at Mach number 2.7, investigation.....	1028	effects of distributed 3-dimensional roughness.....	17736
suction area application to trailing-edge flaps of 35° swept-wing airplane.....	5218	in flight techniques for detecting.....	15075
supersonic inlet flow stabilization techniques.....	6712	caused by various types of roughness, effect of highly favorable pressure gradient.....	6754
sweptback wing configurations with blowing flaps, etc., surface pressure distributions.....	1078	effect on average heat transfer to yawed cylinder in supersonic flow.....	16835
unswept, aspect-ratio-10 wing, 2 propellers, and blowing flaps, wind-tunnel tests of airplane model.....	1087	effect on separated flows in supersonic and subsonic streams.....	950
critical height of distributed roughness particles at Mach numbers 0 to 5, simplified method for determination.....	1093	measurements on hemispheres of various surface roughnesses.....	5301
displacement effects on pressure distribution, skin friction, and heat transfer of bodies at hypersonic speeds, errata.....	8074	on flat-faced bodies of revolution at high supersonic speeds.....	16756
diverter-type, removal system for scoop inlet.....	16770	on hollow cylinders in supersonic flight as affected by Mach number and surface roughness.....	5267
equation for mean velocity distribution.....	5278	surface roughness, techniques for finishing and inspection.....	3924
flow visualization, fluorescent-oil film method and other techniques.....	6787	turbulent.....	
		internal performance of series of circular auxiliary air inlets.....	6704
		on yawed cone in supersonic stream.....	17767
		pressure rise required for incipient separation in 2-dimensional supersonic flow.....	5268
		space-time correlations and spectra of wall pressure.....	6788



# JANUARY-DECEMBER

	Entry		Entry
Boundary layer—Continued		Bradley, Omar N., accept and wear decorations, etc., from foreign governments.....	11943, 12052, 12366
turbulent incompressible, heat transfer—		Brain:	
arbitrary wall temperature and heat flux.....	2049	blood flowing, influence of X-ray irradiation on level of glucose and lactic acid, USSR study.....	13259
constant wall temperature.....	1086	carbohydrate-phosphate metabolism, influence of hypothermia and hypoxia, USSR studies.....	6523
step wall-temperature distribution.....	2047	cerebellum, role in development of skeletal muscles functions in ontogenesis, USSR study.....	16622
transition location effect and prediction in known region.....	1089	changes in cerebrum after total exclusion of visual, auditory, vestibular, and olfactory receptors at early age, USSR studies.....	1811
upswept, aspect-ratio-10 wing, 4 propellers and blowing flaps, wind-tunnel tests of airplane model.....	16874	child's abstraction and generalizations as principal physiological functions, USSR study.....	6484
wedge type diverters—		diencephalic mechanisms and processes of higher nervous activity, U.S.S.R. studies.....	1773
effect on performance of half-conical side inlets.....	16780	mental development, nature of individual consciousness of man as highest degree, USSR study.....	14933
side inlets, performance at supersonic speeds.....	16774	phosphatase in rabbits during ontogenesis, histochemistry, USSR study.....	16623
wing sections—		post-natal, development, effect of single irradiation with X-rays, USSR study.....	6612
effects in hypersonic laminar flows in pressure gradient.....	10498	reticular formation of stem, role in mechanisms of consciousness, USSR studies.....	1813
flow parameters used in computing velocity distributions prior to stalls, analysis.....	15081	see also Cerebral cortex—Electroencephalography.	
laminar heat transfers rates on yawed infinite cylinders in supersonic flow, theoretical investigation.....	13416	Brain waves:	
wing-shroud-blowing control system applied to F9F-4 airplane flaps, flight evaluation.....	16754	alpha rhythm suppression reactions—	
zero pressure gradient, evolution of amplified waves leading to transition.....	16929	in response to subthreshold and suprathreshold sound stimulation.....	1774
Bovine brucellosis, see Brucellosis.		their differentiation, dynamics of formation of simultaneous and trade conditioned reflexes, USSR experimental materials.....	1772
Bowditch, Nathaniel, American practical navigator.....	527	Braithwaite, La.	
Bowles report, see Television.		nickel-cobalt processing contract, investigation, hearings.....	12291
Box beams, see Beams.		Brakes, air, speed on 45° swept-wing model at Mach numbers, from 0.80 to 0.98.....	1062
Box tree, culture, diseases and pests.....	9601	Braking and landing tests on some new types of airplane landing mats and membranes.....	16923
Boxboard thicknesses, recommendation of trade.....	9700	Brandt, Karl, nomination, hearing.....	6051
Boxes:		Braniff Airways, Inc., accident.....	3194
construction, etc., publications list.....	10173	Brass:	
Federal supply schedule.....	4836	ingots, foundry consumption in 1958.....	10445
fiber—		mills, refined metal and copper scrap use, monthly report.....	2832, 11374
industry, midyear review and outlook for 1959.....	9687	secondary, production, etc., 1958.....	10448
this slide up, handle with care (address).....	7206	Brauta sandwicensis, see Nene geese.	
fiberboard with holes for ventilation, effect on compressive strength.....	17456	Brazed honeycomb core titanium panels.....	4276
wood—		Brazil:	
nailed and lock-corner, design principles.....	4908	air transport service, agreement.....	4089
proper nailing.....	13722	ambassador, nomination of Clare Booth Luce, hearing.....	7614
Boxwood, see Box tree.		atomic energy, cooperation for civil uses, agreement.....	13631
Boy Scouts of America:		economic developments, 1958.....	7795
air reservist (periodical).....	2292	economy, basic data.....	3529
equipment, etc. for jamborees—		education in expanding economy.....	10070
laws.....	7310-11	exports and imports, licensing and exchange controls.....	12714
reports.....	5860-61, 7557-58	future as wheat producer.....	12696
erect memorial on public grounds in D.C.—		general agreement on tariffs and trade, renegotiation, analysis.....	5417
law.....	11998	living conditions.....	1660, 14699
reports.....	8862, 9870		
report, 1958.....	8539		
soil and water conservation activities.....	1319		
Boycotts:			
aspects of labor reform (address).....	16846-647		
labor union practices, selected readings.....	14333		
secondary, improper activities investigation, hearings.....	3387A		
Boy's clothing, see Clothing.			
Brachiopoda, fauna of Saturday Mountain formation, Lemhi Range, Idaho.....	12768		
Brachioria, revision of genus.....	6817		



# INDEX, 1959

	Entry		Entry
Brazil—Continued		British Columbia Native Brotherhood, see Native Brotherhood of British Columbia.	
military advisory mission, agreement	4086	British Commonwealth of Nations, see Great Britain.	
point 4 program (address).....	4070	British East Africa:	
preparing shipments to.....	1659	import tariff system.....	9080
sending gift packages to.....	16401	preparing shipments to.....	9082
surplus agricultural commodities agreements.....	4090, 6965, 13621	sending gift packages to.....	16402
technical cooperation, agriculture and natural resources program, agreement.....	4079	British Guiana, technical cooperation program, agreement.....	17859
Bread:		British Honduras:	
and rolls, Federal supply schedules.....	3486, 12675	living conditions.....	3541
baking, technical manual.....	11711	wood-using industries.....	16489
white, prices, marketing margins, etc., 1948-58.....	7063	British Isles, see Great Britain.	
Breakers, see Waves.		Brittle fracture:	
Breakfasts, eat good breakfast to start good day.....	5538	appearance of impact specimens taken from fractured ship plates.....	13573
Breakwater location, Barcelona, N.Y. harbor for light-draft vessels hydraulic model investigation.....	17389	embrittlement mechanics, low temperature, from zinc single crystal studies.....	2124
Breast, malignant neoplasm, death rates by age, color, and sex, 1949-51.....	10520	iron-chromium and iron-chromium-aluminum alloys, Charpy-V transition temperatures.....	17808
Breathing apparatus, respiratory protective equipment approved by Mines Bureau.....	8029	iron-oxygen and iron-aluminum alloys, transition temperatures for mechanical working and heat treatment.....	8154
Bredee, Patricia C., relief.....	14406	observations on problem.....	15182
Breeder reactors, see Reactors (atomic).		propagation, 6-ft. wide structural steel plates, studies.....	17841
Breeding, see Farm buildings—Hybridization—Swine.		ship plate steels, electron microscope techniques for study.....	5402
Breeds of swine.....	3052	static initiation at net stress 40% of yield.....	2125
Brest Aerological Station, experimental work.....	1947	steel, drop-weight test machine remotely controlled for studies.....	6862
Bretton Woods agreement, see International Bank for Reconstruction and development—International Monetary Fund.		strengths relative to onset and arrest of crack propagation.....	3990
Brewer, David W., relief.....	4508	tests of steel plates with residual compressive strain.....	17842
Bricks, prefabricated blocks, use in Czechoslovakia and east Germany.....	606	Brizzard, John M., relief.....	4523
Bridgeport, Wash.:		Broadcasting, see Radio broadcasting, see Radio station—Television.	
contract to sell municipal services to Government facilities during construction of Chief Joseph Dam, validate.....	14045	Broadwater County, Mont., Townsend Valley, geology.....	1708
law.....	14480	Broecker, Gustav K., relief.....	12091
reports.....	9877, 14480	Brollers, see Chickens—Poultry.	
Bridges, Harry R., testimony, hearings.....	12318	Bromegrass, downy brome control in alfalfa.....	7069
Bridges:		Bromine:	
floating, aluminum, highway type, etc., technical manual.....	11708	colorimetric determination in uranium compounds.....	183
highway, catalog of plans.....	15173	minerals yearbook chapter.....	10424
increase fund for construction on federal dams, report.....	14543	production, etc., 1958, preliminary report.....	3869
specialist, MOS proficiency test aids.....	11696	sales and production, 1958.....	8038
see also names of bridges or bodies of water to be bridged.		Bromine isotopes, 35 Br-82, beta and gamma radiations.....	3157
Briefing on current world situation (hearings).....	4649	Bromotrifluoromethane, use with water as crash fire protection system for turbopropeller engine.....	15078
Brightness, see Light.		Bronchitis, death rates by age, color, and sex, 1949-51.....	13479
Bright's disease, see Nephritis.		Brooders, lamb, and ewe feeder, combination, farm building plan.....	17203
Brining, see names of commodities brined.		Brookhaven reactor gamma flux by calorimetry.....	5640
Briquets:		Brookings County, S. Dak., soil survey.....	2138
fuel—		Broomfield, Colo., railroad accident.....	4964
minerals yearbook chapter.....	13309	Brotherhoods, see names of brotherhoods.	
plants in United States, that reported production in 1957.....	924	Brown, Collingwood B., jr., relief.....	5956,
production, etc., 1958.....	9339	8582, 11893	
Bristol, Tenn., aircraft accident.....	15504	Brownsville, Tex., port.....	14602
Bristol, Lake, core logs, geologic investigations.....	6283	Brucellosis:	
Brisk, Yom Tov Yeshayahu, relief.....	16001	calves vaccinated against, guide for identification.....	3038
British Columbia, sailing directions, changes.....	1723, 17502		

# JANUARY-DECEMBER

	Entry		Entry
Brucellosis—Continued		Budgets (family and personal):	
eradication—		annual budget for employed woman	
State-Federal cooperative pro-		in Pennsylvania.....	10638
gram—		BuDocs technical digest.....	3000, 11553
progress reports.....	41, 5512	index, Mar. 1949-Dec. 1958.....	9504
statistical tables, 1958.....	1283	Budworms, <i>see</i> Spruce budworms.	
summary.....	10737, 15299	Budyka, M. I., Lenin prize winner.....	7926
uniform methods and rules.....	5513	Bufalino, William E., improper ac-	
vaccination survey, beef cattle,		tivities investigation, hear-	
Montana, 1952-58.....	8296	ings.....	17354
morphological characteristics of		Buffalo, N.Y.:	
vaccinal process.....	6416	electric facilities of area, map.....	16335
research, USSR study.....	7944	maritime future of area (remarks).....	8989
USSR, literature review.....	13461	occupational wage survey—	
Brucellosis vaccine, immunization ef-		departmental edition.....	3815
fectiveness in combination		document edition.....	3271
with smallpox vaccine and		Buffalo Linen, hot cargo, Mountain	
NIRS polyvaccine, USSR		Pacific, Brown-Olds, yesterday	
study.....	14860	and today, employers also have	
Brunswick, Md., aircraft accident.....	3195	rights and duties.....	13464
Brush:		Buffaloes, water, in India and Pakis-	
control practices for right-of-way		tan.....	17507
maintenance of electric and		Buffeting loads, <i>see</i> Load (mechan-	
telephone systems.....	9481	ics).	
herbicides effects on some species,		Bugs, <i>see</i> Insects.	
southwestern Oregon.....	7834	Bullders, 1 & C, Navy training	
Brush fires, <i>see</i> Forest fires.		course.....	9427
Bryce Canyon National Park, general		Building:	
information.....	6827	airports, standard specifications.....	14007
BSA, <i>see</i> Boy Scouts of America.		Communist China industry, selected	
BSSR, <i>see</i> Byelorussian Soviet Social-		information.....	4974-75, 4883
ist Republic.		construction activity, monthly re-	
Bubonic plague, <i>see</i> Plague.		ports.....	2747, 11284
Buchla, <i>see</i> Aucella.		construction activity in Alaska,	
Buckets (engine):		outlook (adaptation of speech).....	3819
turbine—		construction and maintenance.....	3951
leading edge cracks, origin and		construction and road machinery	
development.....	6723	in USSR.....	3681
thermal-stress fatigue cracking		construction in 1958.....	7981
in turbojet engine.....	16917	construction reports.....	10898
Buckling, <i>see</i> Strains and stresses.		construction review.....	2331, 10791
Buddhism:		construction trends in cities since	
activities, articles.....	6376	1949—	
Chinese, theory and activity, ar-		departmental edition.....	9289
ticles from Hsien-tai Fo-		document edition.....	8536
hsueh.....	6570	Czechoslovakia industry, planning	
Budget Bureau, role in formulation		and creation of prices.....	842
and execution of defense		exhibits, proposed construction	
budget, hearings.....	10031	cases, VA pamphlet.....	13657
Budget examiners, examination an-		hiring procedures (address).....	5321
nouncement.....	11833	homes, how FHA helps improve	
Budget of United States:		techniques.....	402, 12645
balanced, importance (address).....	6319	house construction, publications,	
estimates submitted by President,		price list.....	2108
85th Cong., 2d sess.....	1563	housing and construction reports.....	3188, 8458
legislative branch, 1960, amend-		housing vacancies.....	3188, 8458
ments.....	5815, 8769-70	hydraulic engineering construction	
management, to promote prosperity		(USSR periodical), abstracts.....	7176, 10806
with stable prices.....	17817	industry, Mountain Pacific decision,	
need for balanced budget (ad-		1 year later (addresses).....	6815, 10512
dress).....	17025	new construction—	
1960—		Air Force manual.....	134
budget in brief.....	1404	authorized in Washington, D.C.....	2757, 11296
departmental edition.....	1400	9309, 9311, 11296	
appendix.....	1524	new dwelling units authorized by	
District of Columbia—		local building permits, annual	
departmental edition.....	1403	summary 1957-58.....	13295
document edition.....	1523	permit statistics, 1954-56—	
document edition.....	1522	departmental edition.....	9289
appendix.....	1401	document edition.....	8536
hearings.....	3316	planning and building of cities and	
midyear review.....	15439	protection of atmosphere in	
President's message and summary		Britain, problems.....	7964
statements.....	1402	Poland—	
scientific activities in Federal Gov-		long range plans for supplying	
ernment 1953 and 1954.....	1115	ceramic and wall materials.....	1891
Budgets, <i>see</i> Budget of United States		public construction enterprise, its	
—Budgets (family and personal)—		role and tasks.....	869
also names of coun-		prefabricated brick blocks, use in	
tries, etc.—also names of de-		Czechoslovakia, etc.....	606
partments, etc.—also other			
headings beginning Budget—			
also subjects.			

# INDEX, 1959

	Entry		Entry
<b>Building—Continued</b>		<b>Building materials—Continued</b>	
residential construction vibration and noise characteristics of large-panel houses, USSR study.....	12953	<b>USSR industry—</b>	
sewage and water work construction, contract awards.....	13566	abstracts.....	5033
sewage treatment works contract awards, 1952-57.....	5386	eastern areas.....	660
this is my America (address).....	5392	equipment, prospects for increase in production.....	12915
<b>USSR industry—</b>		selected translations.....	10333, 13159, 13180, 14894, 17586
abstracts.....	5033	working stresses for structural design, engineering manual.....	8957
eastern areas.....	660	<b>Building trades:</b>	
equipment, prospects for increase in production.....	12915	union wages and hours—	
mechanization during postwar period.....	626	departmental edition.....	9290
mechanization (periodical), abstracts.....	7180	document edition.....	8537
selected translations.....	10333, 13159, 13180, 14894, 17586, 17604	<b>Buildings:</b>	
<b>Vietnam, North—</b>		college and university, cost and financing, 1951-55.....	3418
basic construction—		commercial and industrial, damage from nuclear blasts.....	1397
articles.....	13094	dangerous or unsafe, District of Columbia, removal, amend act, report.....	5994
financial and accounting aspects.....	12801	Foreign Service, act of 1926, amend, hearings.....	12534
wood and its uses, publications, list.....	13552	heat loss calculations.....	16322
see also Building materials. — Herald of machine building (USSR periodical—also names of certain reclamation projects.		insanitary, condemnation in D.C., amend act, report.....	5995
<b>Building and loan associations, mutual deposit guarantee organizations, tax exemption, report.</b>	15823	inspection for maintenance.....	2183
<b>Building machinery:</b>		pole-type, walls, doors, and windows, plans.....	11642
construction and equipment industry—		sandwich panels use, research.....	4906
midyear review and outlook for 1959.....	9691	SBA disaster loans, types, etc.....	4053
outlook for 1959 and review of 1958.....	1426-27	wood, powder-post beetle damage, how to prevent.....	17195
Czechoslovakia, industry, planning and fixing prices, problems.....	1869	see also Farm buildings. — Public buildings, also names of buildings.	
development prospects, USSR study.....	12913	<b>Bulgaria:</b>	
equipment for building hydraulic power stations in USSR, construction handbook.....	5020	agricultural economies, notes.....	16396
excavating and earthmoving equipment, 1957 facts for industry.....	1469	anticyclonic type weather.....	829
facts for industry.....	2372, 10903, 11809	atheistic education of pupils, content and forms of training.....	14946
Federal supply schedule.....	14651	budget for 1958 and development of science.....	5009
new machine production prospects, USSR.....	14845	Chepino Basin resort, description, etc., of recreation potentialities education situation.....	714
price trends, 1954-59.....	13297	fulfillment of profit plan as indicator for awarding bonuses in industry.....	1749
USSE, construction machines handbook, excerpts.....	604	gazetteer, official standard names, list.....	12760
<b>Building materials:</b>		magnetic core sampling of iron ore.....	3796
aircraft structural materials, theoretical analysis of creep behavior.....	1094	military toxic agents with general toxic and resorptive action.....	1917
Alaska, investigations (series).....	16456	population projections, 1959-76.....	8459
building materials and structures reports.....	2055, 3951, 8096	provincial press summary.....	3655, 3669, 3673-74, 4978-80, 4991, 4999, 5003, 5006, 5015, 6349, 6378-79, 10211, 10214, 10222, 10225-226, 12806, 12810, 12818, 12823, 12827, 12829, 12853, 12863, 12876, 12904, 14827, 14841, 16521, 16524, 17553
<b>Communist China industry—</b>		<b>Rodopski mining basin ore deposits, scientific research—</b>	858
selected information.....	4974-75, 4983	magnetic moment of magnetometers, influence of certain factors.....	5113
translations.....	17551	photon rocket.....	3717
Federal supply schedules.....	4829, 14652, 16366	selected economic translations.....	777, 1833, 1836, 5058, 5064, 5095, 6458, 6474, 6482, 6505-6, 6535, 6568, 10300, 10306, 12999, 13003, 130281, 13048, 13069, 13080, 13101, 13128-129, 13212, 14888, 14896, 14907, 16563, 16566, 16583, 17583, 17590, 17608, 17618
fine ground admixtures manufactured at construction sites.....	603	selected political and sociological translations.....	598, 4985, 4997, 5001, 6351, 6375, 12811, 12821, 12852, 12867, 17560
geology and construction-materials, part of northeast Kansas (series).....	6284, 14746		
Poland, housing construction prospects in five-year plan.....	691		
<b>resources—</b>			
Marion County, Kans.....	6284		
Nemaha County, Kans.....	14746		
Pottawatomie County, Kans.....	6285		
statistics, 1947-57.....	8433		

# JANUARY-DECEMBER

	Entry
Bulgaria—Continued	
teachers assist Komsomol in fighting religion.....	14946
tobacco production.....	1916
Bulgarian Academy of Sciences, budget funds allocated for 1958 development of science.....	5009
Bulk blending, innovation in fertilizer marketing with special reference to Illinois.....	4105
Bulletins, see Farmers' bulletin—also names of departments, etc., issuing bulletins—also subjects.	
Bullwhacker Mine, geochemical prospecting studies.....	506
Bully Creek Dam:	
construction—	
Interior Dept. report.....	17323
law.....	14088
reports of committees.....	9555, 12493
Bully Creek division, see Vale project.	
Bumgardner, Everett, relief.....	12098, 13989, 14422
Bunker Hill Monument, commemorative coin stamp (poster).....	15147
Bunker oil, see Fuel oil.	
Bunker slio, type C.....	11643
Buoys, parachute weather buoy, design.....	13505
Burda, Irene W., relief.....	12388, 18958, 14182
Burden, William A. M., nomination, hearing.....	8874
Burial:	
in national cemeteries, revise eligibility requirements—	
law.....	14093
reports.....	9982, 14310
Unknowns of World War II and Korea, word-and-picture stories.....	7133
Burke, J. Vincent, Jr., nomination, hearing.....	16193
Burley tobacco, see Tobacco.	
Burlington Island, back channel alignment, tests of specific reaches and closure.....	6108
Burma:	
import tariff system.....	464
living conditions.....	467
preparing shipments to.....	4886
sending gift packages to.....	16403
surplus agricultural commodities, agreement.....	9525
Burners, see Gas burners.	
Burning, see Flames.	
Burning of land, slash burning influence on regeneration, plant cover and fire hazard.....	3578
Burns and scalds:	
burn therapy, USSR research.....	17638
clinical course of burn shock following irradiation, USSR studies.....	6520
treatment in USSR, study.....	17644
Burns Creek Dam:	
construction—	
hearings.....	8895
report.....	12396
views.....	12396
Burtzos, Theodore, relief.....	4675, 8584, 11895
Buses, see School buses.	
Bush, James S., nomination, hearing.....	14552
Business:	
American—	
and international trade (address).....	9746
space age research aspects (address).....	3880
area development bulletins.....	2318, 10780
business report of Department of Commerce, Business and Defense Services Administration.....	15443
Canadian-American relations, U.S. policy (text of address).....	7270

	Entry
Business—Continued	
census, 1954, central business district statistics bulletin.....	15462
census, 1958, preliminary area reports, announcement.....	15458
conditions, national summary.....	2587, 11124
credit and assistance, code of Federal regulations.....	6138
economic outlook, developing (statement).....	1261
establishing in—	
Argentina.....	16419
Austria.....	14689
Colombia.....	457
Ethiopia.....	7769
Federation of Rhodesia and Nyasaland.....	3530
France.....	14690
Greece.....	14687
Hong Kong.....	14686
Iran.....	16420
Japan.....	3532
Libya.....	10149
Monaco.....	458
Switzerland.....	12706
Turkey.....	7770
United Kingdom.....	4877
ethics and small marketers.....	9494
foreign corporations, tax, amend internal revenue code, hearings.....	14360
foreign firms, sources of credit information.....	451
free enterprise in economic growth (address).....	15544
growth patterns, opportunities and obstacles ahead (address).....	17307
indexes.....	2508, 11105
loan surveys, 1955 and 1957.....	6164
loans, security pledged at Federal reserve member banks.....	17413
management aids for small manufacturers.....	6930, 9487-88, 13580-581, 15183-185, 17073
market changes in India call for swift action.....	4871
member bank term lending, 1955-57.....	7728
news reports, OBE series.....	2349, 10880
opportunities and obstacles ahead (address).....	17307
organizations concern with European economic community (address).....	8494
policy decision making of high quality (address).....	4827
poultry and egg, Federal wage-hour law application.....	5458
present trends after 1957-58 recession (address).....	1975
publications, price list.....	10561
recovery behavior of consumer price index.....	10402
relation to Government in economy of future (address).....	13296
restrictive business practices, proceeding of conference.....	10049
service check list, weekly.....	2417, 10948
sightseeing in D.C., insure fair competition—	
hearings.....	15950
report.....	15926
small business—	
act of 1953, amend—	
hearings.....	14555
law.....	15731
reports.....	15797, 16100
act of 1959, amend, hearings.....	12283
acts related, compilation.....	1512
aluminum industry problems, report.....	1537
arbitration.....	15185
bank-SBA participation loan plans.....	2129



# INDEX, 1959

Business—Continued	Entry
small business—continued	
bulletins.....	8217-18, 9490, 10580, 13582-583, 15187-188, 17075, 17843
committee to study problems—creating, report.....	3315
85th Congress, final report.....	1539
corporations, taxable status—law.....	15740
report.....	16135
current programs and activities of SBA, hearing.....	12570
dairy industry problems—hearings.....	12314, 15970
report.....	12210
deferred compensation plans—definition of term within meaning of act of 1953—	17073
hearings.....	3334
report.....	1536
discount-house operations competitive impact, report.....	329
discriminatory practices against suburban shopping centers, hearings.....	10056
food distribution problems, hearings.....	12315, 14357
help from ICA.....	9488
how better business bureaus help.....	9493
how public Employment Service helps.....	9487
include agriculture enterprises in definition, hearings.....	14555
independent logging and sawmill industry, problems—	
hearings.....	1571, 6076
report.....	7574
investment act of 1958—	
amend, hearings.....	14555
amend, report.....	16099
briefing session sponsored by American Management Association.....	3382
briefing session sponsored by American Management Association, print additional copies, report.....	5833
policies and procedures pursuant to (addresses).....	5406
questions and answers.....	328
law-enforcement activities affecting, report.....	3290
management series.....	4054, 9491, 13584
paperwork, cutting through work simplification.....	15183
participation in defense subcontracting—	
hearings.....	10057
report.....	14496
participation in foreign trade and foreign aid, hearings.....	14356
participation in Government procurement, 1958, report.....	1565
participation in missile program, problems in Los Angeles, Calif., hearings.....	3333
poultry industry problems, report.....	1538
practical use of Government statistics.....	4054
pricing arithmetic.....	6930
problems, investigation—	
authorization, report.....	3365
expenses, report.....	16089
products list circulars.....	2937, 11481
reducing stock shrinkage.....	8219
research and development work, list.....	2130
retail, operating costs and ratios.....	13582
right to buy in open markets and its denial, staff study.....	12569
SBA disaster loans, types, etc.....	4053

Business—Continued	Entry
small business—continued	
SBA loan authority, increase, hearings.....	12283
SBA management assistance—selected Government publications, list.....	10578
selling to Government, basic information.....	15164
small marketers aids.....	4052
4055-56, 6932, 8219-20, 9492-94, 17076, 17844.....	1169,
annual.....	10581
starting and managing problems.....	4037,
starting and managing series.....	9316
State taxation on interstate commerce, commission to study, hearings.....	4057,
State taxation on interstate commerce, effect—	17845
hearings.....	7647, 8910, 12571
report.....	12401
tax depreciation allowances, effects, hearings.....	16228
tax guide, 1959.....	541
tax legislation, 1958, summary.....	15983
tax revision act of 1958, questions and answers.....	328
technical aids.....	1170
watch your cash, management aids.....	15184
wholesale, operating costs and ratios.....	13583
statistics—	
biennial edition, 1959.....	13826A
Federal reserve chart book.....	2558, 11095
historical supplement.....	16344
weekly.....	2346, 10877
survey of current business—	
monthly.....	2348, 10879
supplement.....	4348
weekly supplements.....	2346, 10877
technical aids for small manufacturers.....	6933, 13585-586, 15189
United States income and output, current business survey supp.....	4348
United States position in changing world (address).....	8501
see also Competition—Retail trade, Business and Defense Services Administration:	
appropriation, 1960, proposal.....	12339
CTR series.....	3173-75, 4341-42, 5663-66, 7168, 9675-77, 11762, 15444-446
list.....	5666
ER series.....	1405-56,
3178, 5667-71, 9685-98	
mobilization responsibilities, progress report, hearing.....	15752
MR series.....	9685-98, 11767, 13824-826
releases BD series.....	2345, 10876
Business consolidations:	
application to cooperatives, review of progress.....	16279
bank mergers, regulate—	
hearings.....	6052
report.....	7548
views.....	7548
merged corporations, credits against unemployment tax, report.....	15845
premerger notification legislation, amend Clayton act, hearings.....	7640
Business Economics Office, releases and news reports, OBE series.....	2349, 10880
Business men:	
Federal Government, specifications and standards, guide for use.....	16369
government publications, list.....	15158
greater participation in national leadership (address).....	15545



# JANUARY-DECEMBER

	Entry		Entry
Business men—Continued		C.P., <i>see</i> Chemicals and Plastics Division.	
National Guard is your business...	16943	C.R.P.L., <i>see</i> Central Radio Propagation Laboratory.	
traffic safety problems...	1155	CA series...	3039
Business names, misuse to indicate		CAA, <i>see</i> Civil Aeronautics Administration.	
Federal agency, amend U.S. Code—		CAA statistical handbook of aviation	1614
law...	15656	CAB, <i>see</i> Civil Aeronautics Board.	
reports...	5990, 12265	Cabarets, tax reduction, report...	14216
Business recession:		Cabbage:	
losses and lessons (address)...	7727	and related plants, disease...	79
present trends in business, employment, and prices after 1957-58 recession (address)...	1975	storage life on Navy supply ship, extending...	11631
relation to temporary disability insurance claims in New York and California...	10083	Cabinet Committee on Price Stability for Economic Growth, <i>see</i> President's Cabinet Committee on Price Stability for Economic Growth.	
Business Research Advisory Council, directory, fiscal 1959...	9295	Cabinet Committee on Small Business, 2d progress report, Dec. 31, 1958...	2105
Businessmen, <i>see</i> Business men.		Cabinetmakers, examination announcement...	5735
Butt-log tree grading works in Ohio...	9091	Cabinets, key, Federal supply schedule...	412
Butte, Mont., mining methods and costs, Berkeley Mine...	6651	<i>see also</i> Filing cabinets.	
Butter:		Cables, <i>see</i> Submarine cables—Telegraph—Terminals (cable).	
carton, one-pound Elgin style, size trade recommendation, errata...	4346	Cacao, foreign agriculture circulars...	2643, 11182
food, drug, and cosmetic act requirements, how to meet...	12693	Cachous, aromatic, excise tax exemption, report...	14219
futures trading and open contracts...	2429-30, 10962-063	Cachuma Dam, design and construction...	17065
household purchases—		Cadets, <i>see</i> Air Force Academy, Colorado Springs—Naval Air Station, Pensacola.	
monthly...	2208	Cadiz Lake, core logs, geologic investigations...	6283
quarterly...	2209	Cadmium:	
marketing margins and costs...	1314	crystalline metasilicate, heat and free energy of formation data...	8049
prices received by midwestern creameries, problems of reporting...	3018	materials survey...	3841
sales, effects of coupons and special offers...	13734	minerals yearbook chapter...	13308
Butterflies, Theochilla and Tatochilla genera, revision...	13468	production, etc., 1958...	8036
Butyl alcohol, iodination of di-n-butyl phosphate in n-butyl alcohol...	16986	recovery from incendiary alloys...	10453
Butyl phosphates:		report, quarterly...	2793, 11337
deuterium exchange studies...	5348	slow neutron resonances...	17249
extraction of cerium from sulfate leach liquor...	17709	Cadmium sulfide, solar generator, properties...	11690
iodination of di-n-butyl phosphate in n-butyl alcohol...	16986	Caesalpinia, <i>see</i> Angelique—Cativo.	
Buying, <i>see</i> Purchasing.		Cages:	
Buzzanca, Sam J. relief...	14193	playing houses, California type...	7066
BW, <i>see</i> Biological warfare.		raising with suspended work cage at Irene shaft, Leadville, Colo...	925
Byelorussian Soviet Socialist Republic, health organization, 40 years...	12955	Calcium:	
Bypass duct design for use with superionic inlets...	6737	and calcium compounds—	
Byproducts, <i>see</i> Waste products.		minerals yearbook chapter...	10425
Byrd, Richard E.:		production, etc., 1958...	8040
memorial in Arlington, Va., National Geographic Society to erect—		Calculating machine operators, examination announcement...	5734
law...	15655	Calculating machine paper, Federal standard...	14648
report...	16178	Calculating machines:	
Byrd Station, Antarctica, deep core drilling in ice...	16269	facts for industry...	13864
Byroade, Henry A., nomination, hearing...	6058	giant tree volumes for machine use...	500
		<i>see also</i> Electronic computers.	
		Calculations, <i>see</i> Numerical calculations.	
		Calculators, veterans benefits, 1959...	3336
		Calendars (executive), <i>see</i> Senate.	
		Calendars (of business), <i>see</i> Court of Claims—House of Representatives—Senate.	
		Calhoun, John C., portrait unveiling, proceedings...	5942
		Calibration:	
		accelerometers, methods and apparatus, USSR study...	7961

# INDEX, 1959

	Entry		Entry
Calibration—Continued		California—Continued	
date of Mach number 1.40 nozzle of		San Luis unit of Central Valley	
Langley 4 by 4-foot supersonic		project construction agree-	
tunnel, pressure distribution		ment—	
investigation	10475	hearings	7469, 7625
liquid-in-glass thermometers	2058	reports	6023, 8663
Stanton tube use for skin-friction		views	8663
measurements	5286	southern—	
static-pressure error, for nose-boom		forest fire control, report and	
airspeed installations of 17 air-		findings of special subcommit-	
planes	3906	tee	4655
wind-tunnel tests of combined pitot-		sweet sorghum growing	15279
static tube, vane-type flow-		State labor laws summary	8275
direction transmitter, and stag-		sulfur industry	16694
nation-temperature element at		surface water supply, Pacific slope	
Mach numbers 0.60 to 2.87	17752	basins	6296
California:		timber products output, 1956	6237
agricultural conservation hand-		veneer and plywood industry, de-	
book	9	velopment	3553
airborne radiometric survey of		vertical distribution of pelagic fish	
southern California project,		eggs and larvae	17428
located in California and Ari-		water provided from Friant Dam	4040
zona, summary	8402	white fir mortality following defol-	
bark beetles, use of ethylene dibro-		iation by Douglas-fir tussock	
midide sprays for controlling	16441	moth, 1957	1672
census of governments, 1957, State		women, labor laws summary	8275
bulletin	11776	California 5-spined engraver beetle,	
climatological data	2993, 11546	see Beetles.	
coast, fisheries in 1957, year of		California Forest and Range Experi-	
warm water and southern fish	432	ment Station:	
coast pilot	13898	field laboratories, guide	6257
Communist Party, Southern Dis-		forest research notes	473-474,
trict, organizational structure,		1672-73, 3552, 10164, 16441	
objectives, and leadership—		forest survey releases	3553, 6237
hearings	7489	miscellaneous papers	1674, 6238, 9088-90
report	5890	report, 1958	6240
report, additional copies, report	9869	technical papers	1675, 3554, 6239, 7806-7
cone crop, 1958	474	see also Pacific Southwest Forest	
cone crop, 1959	16445	and Range Experiment Sta-	
cooperative wildland research pro-		tion.	
gram, report	6240	Callisinae, subfamily of Aradidae,	
desert areas, storage behavior of		notes on National Museum Col-	
lemons	5548	lection	8109
Douglas fir, small seed trap per-		Calligraphers, and painters, treatise by	
formance	16442	Qadi Ahmad, son of Mir-Mun-	
durum wheat allotments, increase		shi	16454
hearings	6043, 7438	Calloway County, Ky., forest inven-	
report	12445	tory statistics	1213
electric rate book	7706	Calorimeters, design and construction	
flood of 1958, report on damages		of measuring device operated	
and recommendations for ac-		in Brookhaven reactor	5640
tion	7482	Calorimetry, Brookhaven reactor	
fruits and vegetables, frost dam-		gamma flux	5640
age	3022	Calumet River Lock, filling and em-	
industry and employment, shifts in		ptying characteristics	7681
composition	13299	Calumet-Sag project, filling and em-	
landings, fishery products	2607, 11145	ptying characteristics of Calu-	
mail routes, schedule	15151	met River Lock	7681
maximum station precipitation	8272	Calves:	
mineral industry, minerals year-		calf crop, 1958	5484
book chapter	3843	calf crop, 1959	13684
northern, asbestos deposits in ser-		direct shipments into selected	
pentine belt, reconnaissance	8027	North Central States by State	
northwestern, floods of Jan. 1953	16470	of origin, 1941-57	3080
pine forests, danger and control of		meat products, purchase specifica-	
bark beetle damage, 1959	14735	tion requirements approved by	
policemen and firemen, social secu-		USDA	13694
rity coverage, law	15649	on feed	2232, 10686
postal service scheme	17021	vaccinated against brucellosis,	
power transmission facilities, pro-		guide for identification	3038
posed intertie with Bonneville		Calza, Jose Santiago S., relief	4541
power system, hearings	8894	Camber (aircraft):	
precipitation data, hourly	2996, 11549	body, effects on longitudinal char-	
precipitation, monthly and sea-		acteristics of 60° delta-wing	
sonal	2173	body combination	16823
recession relation to TDI claims	10083	propeller blades, investigation of	
rice mills, stocks and movements	2262,	blade-loading characteristics	16847
	10713	Cambodian language, development	12865
sandwich planting and mechanical		Camels, plague, experimental, patho-	
planting hole digger tests	16443	logical anatomy, USSR study	16631
		Camelsback Reservoir:	
		construction, engineers report—	
		departmental edition	4783
		document edition	4668

# JANUARY-DECEMBER

	Entry
Cameras, feasibility of cobalt 60 fluoroscopic intensifier image orthicon system, report.....	1389
Cameroons:	
economic developments, 1958.....	7785
exports and imports, licensing and exchange controls.....	14705
Camerton filters, <i>see</i> Radio frequency filters.....	
Camouflage, basic principles and field camouflage, field manual.....	5615
Camp Irwin, Calif., geologic reconnaissance and test-well drilling.....	7859
Campaign expenditures:	
House of Representatives, 1958, committee investigations—	
hearings.....	3321
report.....	1530
views.....	1530
Campaign Expenditures, 1958, Special Committee to Investigate, House:	
hearings.....	3321
report.....	1530
views.....	1530
Campbell Limestone Co., crushed granite, methods and practices for producing.....	917
Camping:	
facilities in areas administered by National Park Service.....	9414
4-II, manual for leaders.....	15327
Campholone, elimination of Sr 89 from organism.....	5123
Camps:	
4-II, manual for leaders.....	15327
summer, nonprofit, milk consumption.....	8325
<i>see also</i> names of camps.....	
Can America afford mediocrity?.....	10393
Canada:	
Air Force directory of addresses.....	3088, 4204
air transport services, agreement.....	9519
American-Canadian business relations, U.S. policy (address).....	7270
apple virus diseases, recent studies.....	4160
atomic energy, cooperation for mutual defense purposes, agreement—	
hearings.....	12026
reports.....	12161, 12170, 12433
text.....	15219
carlot and truck unloads of fruits and vegetables.....	4136
communications facilities at Cape Dyer, Baffin Island, agreement.....	9515
economic developments, 1958.....	10146
establish ballistic missile early warning system, agreement.....	15212
foreign trade, 1957-58.....	10162
Great Lakes, light list.....	4401
international trade gaining new significance and importance (excerpts from remarks).....	13901
labor offices, directory.....	16651
northern, sailing directions, change.....	7868
parliamentary conferences, U.S. House delegation to 2d meeting, report.....	12225
parliamentary conferences, U.S. participation—	
law.....	9774
report of Senate delegation.....	16197
reports.....	5854, 5897, 7556
radio facility charts.....	2310-12, 10761
relations with U.S. study mission, 2d report.....	1546
St. Lawrence Seaway—	
agreement.....	9510
tariff of tolls, agreement.....	8244

	Entry
Canada—Continued	
tactical air navigation facilities, establishment agreement.....	9522
United States relations, investigation, authorization, reports.....	3347, 3360
United States trade, we like our customers (address).....	13905
use of Haines cut-off road, agreement.....	17874
vessels, transportation, Alaska ports—	
law.....	12012
reports.....	4731, 12138
warning and control system against air attack, establishment, agreement.....	9515
Canadian Border to Eureka, Calif., coastal warning facilities charts.....	2174, 15238
Canalgre:	
roots, use as tanning extract.....	13712
tannin source.....	7067
Canal Zone:	
code, amend—	
law.....	14054
reports.....	12153, 14458
geology and paleontology.....	14754
insurance business report, 1958.....	11770
mineral industry, minerals year-book chapter.....	17083
national atlas sheet—	
aerial mosaics status.....	14750
aerial photography status.....	14751
topographic mapping status.....	14752
Panama Canal, code of Federal regulations.....	6155
Canal Zone Government:	
annual report, 1958—	
departmental edition.....	7188
document edition.....	7329
audit report, 1957.....	295
Canals, <i>see</i> names of canals.....	
Canberra, Australia:	
Commonwealth Parliamentary Association meeting, invitation to Congress, reports.....	7572, 8842
Cancer:	
anticancer antibiotics, Soviet research.....	12926
bibliography for nurses.....	17831
cervical, examinations.....	17040
control program.....	17056
digestive tract.....	8191
embryological data, USSR.....	865
excerpts from Problem of anticancer antibiotics, USSR study.....	1942
morbidity, variation in incidence, by age, sex, race, etc., United States.....	4026
program developments and research studies, 1957, Jan.-Mar. 1958 highlights.....	2059
reading on cancer, annotated bibliography.....	17051
research, 1958, highlights of progress.....	13463
skin.....	10566
worldwide menace, facts and figures on occurrence.....	12538, 16184
Cancer Institute, <i>see</i> National Cancer Institute.....	
Candida, Sister, <i>see</i> Ferrante, Giuseppe.....	
Candida sepsis, following antibiotic therapy, USSR study.....	10252
Canjuga, Magda K., relief.....	5963
Canker (disease of plants):	
pitch canker of southern pines.....	7812
rots in southern hardwoods.....	4899
Canned foods:	
report (periodical).....	2351, 10882
transportation and distribution.....	15482
<i>see also</i> names or classes of foods canned.....	

# INDEX, 1959

	Entry		Entry
Cannelton lock and dam, rename as George Ewing lock and dam, report	7583	Capitol:	
Canning and preserving, home, helpful Government pamphlets, list	13553	attending physician to secure assistant from Naval Medical School, report	8638
see also names of commodities canned or preserved.		Charles M. Russell statue for rotunda, acceptance proceedings	12331A
Cannon's procedure in House of Representatives	9803	Florence R. Sabin statue for rotunda, acceptance proceedings	9938
print, law	7306	Prayer Room, origin, etc., additional copies, report	4566
Canopies (aircraft):		Capitol Page School, general information, print, report	8628
effect on low-speed oscillatory yawing derivatives	3923	Caplin, Jerome B., testimony of and about, hearing	8900
flat- and vee-windshield, free-flight investigations to determine drag on parabolic fuselage	1095	Caprara, Liliana, relief, 12062, 15591, 16023	
supersonic-aircraft fuselage, pressure-distribution tests conducted in Langley 4-by 4-foot supersonic tunnels at Mach number 1.40	10475	Capsules, conical-shaped reentry, water landing characteristics	10497
Cans:		Capitan Anthony Meldahl locks and dam:	
metal—		designating—	
facts for industry	2371, 10902	law	11987
summary, 1958	5697	reports	7422, 12411
industry, midyear review and outlook for 1959	9694	Captive Nations Week:	
Cantaloupes, see Muskmelons.		designating—	
Canton, China, report on 1957 fiscal accounts and 1958 draft budgets	3657	law	11977
Capacitors:		report	12409
electrolytic use for signal summing	10539	Capulin Mountain National Monument, general information	8120
Polish high voltage systems, need for use	673	Caranx, young jack crevalle off southeastern Atlantic Coast	10129
tantalum electrolytic, CAA specification	242, 244	Carbides, cemented, status of technology	8165
Cape Dyer, communications facilities, establishment, agreement with Canada	9515	see also Silicon carbide—Tungsten carbide.	
Cape Hatteras National Seashore Recreational Area, general information	3970	Carbohydrates:	
Cape Hatteras to Brunswick, Ga., coastal warning facilities chart, 1959	15239	chemical and organoleptic changes produced by radiation sterilization	4035
Cape Mountain, tin placer district, sampling methods and results	6649	metabolism in brain during hypothermia and hypoxia, USSR studies	6523
Cape Romain National Wildlife Refuge, birds	14667	Carbon:	
Capillaries, penetrability of walls, effect of conditionally low doses of X-rays in thyrotoxicosis, USSR study	6613	alloys, iron-carbon, mechanical properties at low temperatures	13571-572
Capital:		micro determination in organic compounds	13526
equity, make available for small business law—		semi-conductors, Japanese studies	3790
questions and answers	328	Carbon black:	
report	16099	minerals yearbook chapter	14990
investments in water resources developments, 1900-75	11769	production declined 9 percent in 1958	8043
keystone to strong agriculture (address)	7683	report, monthly	2794, 11338
see also Investments.		use in cloud modification and formation experiments	2090
Capital Airlines, Inc., accidents	3195, 7228, 11818	Carbon County, Wyo., uranium reconnaissance investigation of Saratoga area	3594
Capital of United States:		Carbon dioxide, equilibrium study	
communist lobbying activities, report	15971	Carbon isotopes, C-14, use in study of photosynthesis	3152
metropolitan growth problems investigation, report	4704	Carbon monoxide:	
metropolitan statistical program, establish, staff study	1572	hydrogenation to produce synthetic liquid fuels	9334
National Capital area, mass transportation survey report, 1959	13460	procedure of detection and control in aircraft, military standard	10067
National Capital Transportation Authority, draft legislation staff report	17362	Carbonates, see Potassium carbonates.	
Capital Transportation Authority, see National Capital Transportation Authority.		Carbone, Francesca, relief	14129
		Carbone, Teresa, relief	14129
		Carbonization:	
		BM-AGA test method and correlation with industrial coking, duplicability studies	8050
		coal—	
		Allegheny County, Pa.	6668
		Boone County, W. Va.	6666
		McDowell County, W. Va.	2014
		temperatures and time effect on quality of charcoal from cluder-concrete block kiln	7830
		Carbonizing tests in Tuscaloosa oven	13365



	Entry		Entry
Card punch operators (alphabetic), examination announcement----	5734	Carolina, Sister, <i>see</i> Vallo, Antonietta.	
Cardiac activity, <i>see</i> Heart.		Carotene, content of certain preparations and foodstuffs, after-effect of ionizing radiation, USSR studies-----	3720
Cardiovascular-renal diseases: death rates, U.S., 1949-51, by age, color, and sex-----	8112	Carotid sinus, allergic reaction of chemoreceptors-----	6492
nursing services outside hospital for patients-----	13565	Carpenters: apprenticeship training program of United Brotherhood of Carpenters, and Joiners of America (address)-----	1964
Cardiovascular system: adrenal glands influence in newborn animals, USSR study-----	16619	examination announcement-----	5735
animals during ontogenetic development, inhibitory influences, USSR study-----	16621	Carpets, Wilton, Brussels, etc., trade agreement escape clause investigation-----	4104
changes in functional condition during radiation sickness, USSR study-----	9247	Carrier telegraphy, <i>see</i> Telegraph.	
diseases, death rates by age, color and sex, 1949-51-----	8113, 13474	Carriers, <i>see</i> Air carriers—Communications—Motor carriers—Pipe lines—Railroads—Telegraph—Telephone—Water carriers.	
diseases, research, training, and community programs, PHS grants and awards-----	9403	Carroll, John A., relief-----	4510, 5979, 7300
effect of radioactive phosphorus, USSR study-----	10253	Carroll County, Ind., soil survey-----	1175
function, effect of small doses of radioactive phosphorus, U.S.S.R. studies-----	6446	Carrots, canned, U.S. standards for grades-----	11590
vasomotor influences from cephalic portion of vagosympathetic trunk severed in neck region in newborn animals, USSR study-----	16620	Cars, <i>see</i> Automobiles—Dining cars—Freight cars—Passenger cars—Railroad cars—Refrigerator cars.	
Cards, Government national credit cards, embossed, Federal supply schedule-----	12673	Cars, cows, and highways (address)---	9473
<i>see also</i> Catalog cards.		Cartels, <i>see</i> Trusts (Industrial).	
Career Service: establish-----	14576	Cartographers, examination announcement-----	7246
hearings-----	16224	Cartographic Society, German, <i>see</i> German Cartographic Society.	
report-----		Cartography, terrain representation, 1958 Niederdollendorf seminar report-----	3702
Careers, <i>see</i> Civil service—Occupations.		<i>see also</i> Maps and charts.	
Cargo, <i>see</i> Shipping—Ships—Unloading and lading.		Cartons: butter, one-pound Elgin style, size trade recommendation, errata-----	4346
Cargo handling, conex containers, size and dimensional factors affecting design for packaging and protection of materiel, Interim report-----	5445	Federal supply schedule-----	4836
Cargo services, <i>see</i> Air carriers.		folding box industry, midyear review and outlook for 1959-----	9685
Caribbean area: climatological data-----	2993, 11546	Cartwheel, reduction of Rabaul-----	16682
flight information, corrections-----	2315	Cascade: compressor blades, systematic 2-dimensional cascade tests at low speeds-----	10465
military personnel of U.S., helpful hints, DA pamphlet-----	162	double-circular-arc blades, throat-area determination-----	1000
Caribbean forester (periodical)-----	2048, 11187	parameters, effect on rotating stall-----	6786
Caribbean Sea: exploratory long-line fishing for tuna, 1954-57-----	12681	Casehardening: detection and relief in kiln-dried lumber-----	9101
radio facility charts-----	2307, 10757	in Soviet Union, information-----	3699
Caribou National Forest: land applications pending under small tracts act, permit processing-----	14020	Caseln, free importation, temporary, extend, report-----	14221
law-----	9865, 12502	Cases, <i>see</i> Flashlight cases.	
reports-----		Cases adjudged, <i>see</i> names of courts.	
Carles, <i>see</i> Teeth.		Casework performance in vocational rehabilitation-----	9540
Carlin Bayous: improvement, engineers report—departmental edition-----	374	Caseworkers, <i>see</i> Social workers.	
document edition-----	324	Casey, Walter, relief-----	7349, 9769, 9957
Carload waybill statistics, <i>see</i> Railroads.		Cash, Elba H., relief-----	4472, 10006
Carlsbad, N. Mex., electric-power-distribution system, potash mine and refinery, Duval Sulphur & Potash Co.-----	16697	Cash transactions, <i>see</i> Finance.	
Carmody, John F., relief-----	5827, 8790, 11882	Cashen, T. V., relief-----	4520, 5987, 7285
Carnations: cut, production and sales, 1957 and 1958-----	8284	Caspian Sea: tectonics of northern depression oil-gas-bearing regions, USSR studies-----	7917
prices and market receipts, seasonal variation, New York City-----	11567	wind fields, constructing charts showing speed distribution in Baku-Apsheiron area, USSR study-----	6586
		Cassiterite sulfide, mineralization of western Pribalkhash'Ye-----	1779
		Cast iron: facts for industry-----	2371, 10902
		monthly report-----	11352



# INDEX, 1959

	Entry		Entry
Cast iron—Continued		Catalogs—Continued	
partitioning of alloying elements		index-catalogue of library of Surgeon General's Office	17781
in malleable irons	6861	Industrial College of Armed Forces, 1959-60	16503
see also names of manufactured articles.		Library of Congress—	
Casters, for hospital equipment, standard of trade	9683	books, authors	2773, 11313, 14979
Casting, see Molds (forms).		books, subjects	2769, 11309, 17672
Casting molds, see Molds (forms).		cumulative	2769-70, 2773, 10412, 11309-310, 11313, 13304, 14979, 17672.
Castings:		motion pictures and filmstrips	2770, 10412, 11310
ferrous, industry, outlook for 1959 and review of 1959	1452	music and phonorecords	13304
iron, facts for industry	2371, 1092	national union catalog	2773
mold and core sand bonded with sodium silicate, factors affecting performance	6863	symbols used	10414
nonferrous, facts for industry	214, 2371, 10902	subject headings, monthly supplements	2777, 11318
steel, facts for industry	7201, 10902	library of Surgeon General's Office, National Library of Medicine	17781
theory of alloying special cast alloy alloys, certain problems, USSR studies	5118	library of Thomas Jefferson	9325
see also Die castings.		addenda	9325
Castronovo, Antonino M., relief	12383	revised pages	13302
Casualties, atomic, technical considerations on reduction, hearings, excerpt	13804	Lincoln exhibition at L.C.	3827
Casualty services, Air Force manual	3089, 7079, 8346	medical and veterinary zoology	11605
Catalog cards:		Military Academy Preparatory School	914
Library of Congress—		military supplies catalog system, hearing	1542
annual cumulation	14979	motion pictures and filmstrips, educational, etc., selected for use abroad	17149
books, authors	2773, 11313	National Exhibition of Prints held at Library of Congress, May 1-Sept. 1, 1959	8015
books, subjects	2769, 11309, 17672	National Library of Medicine, 1958	9328
motion pictures and filmstrips	2770, 11310	nautical charts and publications, monthly corrections	2668, 11207
Cataloging:		Naval Academy, Annapolis, 1959-60	13502
American Library Association, rules for author and title entries, additions and changes	10409	Naval Reserve officers school	10529
Atomic Energy Commission reports, corporate author entries	11743	searching of unfilled L.C. printed card orders in National union catalog	9324
Federal catalog system of Defense Dept., history, organization, etc.	16238	soil and water conservation, practices and methods	10587
in source	10410	stores stock catalog—	
Library of Congress, descriptive cataloging rules, additions and changes	10409	Mar. 1959	3488
military supplies catalog system, hearing	1542	Dec. 1959	17422
rules, Library of Congress and A.L.A., additions and changes	3829	talking books for the blind, 1953	3828
searching of unfilled L.C. printed card orders in National union catalog	9324	technical reports, CTR series	3173-75, 4341-42, 5663-66, 7168, 9675-77, 11762, 15444-446.
service, bulletins	3829-30, 9324, 10410	list	5666
spare parts marking, CAA specification	222	work of Charles Fenderich, lithographer	16075
Cataloging manual M (series)	16237	Catalysis:	
Catalogs:		hydrocarbons with oxide catalysts, dehydrogenation of n-hexane, etc., USSR studies	1910
Armed Forces Institute	11694	iodination of di-n-butyl phosphate in n-butyl alcohol	16986
Army service schools, courses offered, changes	160-161, 1368-69, 3140-42, 4290-93, 5618-20, 11690-702, 13781, 15378-383	Catalysts:	
Atomic Energy Commission Engineering materials list	4325-27, 11741, 17264	aluminum-chromium-potassium—	
census publications	2353, 10883	dehydrogenation of hydrocarbons	3792
monthly supplements	2352, 10884	reactivity in isopentane dehydrogenation reaction	1911
charts available from Agriculture Dept	9613	cobalt and iron for Fischer-Tropsch synthesis, preparation and properties	9334
copyright entries	344-346, 4751-52, 7048-51, 8911-12, 16232-233, 17363-364.	stereospecific, application to synthesis of diene elastomers, literature survey	9447
Foreign Service Institute, School of Foreign Affairs, School of Languages	6943	Catawba Indians:	
Government publications, monthly catalog	2892, 11434	tribal assets, divide among members of tribe—	
highway bridge plans	15173	law	15687
		reports	14264, 16108
		Caterpillars, see names of caterpillars.	

	Entry		Entry
Cathode ray tubes, bias, effect on radar target detectability with B-display under various conditions of ambient illumination	6860	Cedar Mountain, uranium resources of area	16467
Cathode rays, oscilloscope, commercial type, CAA specification	236	Celery, storage life on Navy supply ship, extending	11631
Cathodes:		Cello Falls, Oreg.:	
oxide, preconversion	10534	destruction of fishing rights, make payments to Indians exempt from income tax—	
studies and deep bath deposition	10456	law	12011
Catv, <i>Prioria copalifera</i> Gris., foreign wood	3562	reports	8841, 12124
Cattle:		Cellophane botulin toxins and antitoxins of type A and antitoxins sera, investigations by methods of zonal electrophoresis and diffusion precipitation in agar	798
beef brucellosis vaccination survey, Montana 1952-58	8296	Cells:	
brucellosis eradication program progress report	41	bacterial connection between biochemical processes and structural elements, USSR study	16556
business outlook (talk)	11591	organelles, radiosensitivity, USSR study	6595
carcass bruise damage, handling conditions and practices involved	13729	reproduction, regenerative processes, USSR Academy of Medical Sciences endocrinological studies on problems	815
chute, variable widths, farm building plan	8329	structure and properties of cell nucleus, recent data, USSR study	14951
covered feeders, farm building plan	17202	<i>see also</i> Cytochemistry	
dairy and beef, mangers and feeding floors, farm building plan	11644	Cells (electrolytic), <i>see</i> Electrolytic cells	
direct shipments into selected North Central States by State of origin, 1941-57	3080	Cellulose, enzymatic degradation, literature review	485
fence-line feeder, farm building plan	8326	Cellulose acetates:	
grazing in longleaf pine forests of south Mississippi	3584	lamination of documents for preservation	17770
horn flies, how to control	5540	partial acetylated cotton, potential markets	11570
hyperkeratosis, causes, symptoms, etc	9607	Cement:	
industry in Idaho (talk)	72	cement and pozzolan requirements, Engineers Corps manual	17378
North Central States, shipments, 1958	9576	cement (USSR periodical), abstracts	10786
on feed	2232, 10686	manufactured at construction sites, portland—	603
pens on terminal stockyards, cleaning methods and equipment	17172	and other hydraulic cements, production, etc., 1958	13339
permanent breeding rack, farm building plan	8328	errata	16710
repellents reduce browsing on pines	6275	distribution, fuel consumption, etc., monthly report	2828, 11370
scabies, eradication, report, 1959	13707	production, shipments, and stocks, monthly report	2827, 113697
warts, description, treatment, etc. <i>see also</i> Calves—Cows—Livestock	1309	Cementation of bituminous-coal-mine roof strata	3875
Cattle ranges, <i>see</i> Range lands		Cemeteries, American military, overseas, general information	8374
Cause of human diguity (address)	9276	<i>see also</i> National cemeteries—also names of cemeteries or places where located	
Caustic poisons, <i>see</i> Poisons		Cenozoic era:	
Caustic scale, apparatus for measuring cotton-fibers	11572	Cenozoic echnoids of eastern U.S., stratigraphy of area between Hernando and Hardee, Counties, Fla.	14747
Cayuga Lake, sea lamprey, life history	14663	Censorship, laws, extend application, report	4556
Cayuna Range, manganese ores, acid-ferrous sulfate leaching	5204	Census:	
CCC, <i>see</i> Commodity Credit Corporation		Alaska, enumerator's training manual	17284
CCl, <i>see</i> Coating and Chemical Laboratory		18th decennial, procedure plans, etc	13857
CDC, <i>see</i> Communicable Disease Center		Nation's five-foot shelf, basic data for use in economic planning of U.S.	9726
Ceanothus, wedgeleaf, hot water bath and thlourae break dormancy of seed	3552	plans for taking 1960 census, hearing	7479
Cebu Islands, sailing directions	17499	special censuses conducted by Census Bureau between Oct. 1-Dec. 31, 1958	5683
Cecropia peltata, <i>see</i> Yagrumo hembra		tract manual	1464
Cedar:		tracts in American cities, statistics	1464
Atlantic white, silvical characteristics	12744	<i>see also</i> subjects	
juniper control, costs of bulldozing vs. burning individual trees, comparison	16448		
northern white, pulping processes	1684		
Port-Orford—			
phytophthora lateralis	17475		
plantation in Pacific Northwest	6265		
silvical characteristics	1692		
western juniper, silvical characteristics	4915		
western redcedar, silvics	14720		

# INDEX, 1959

	Entry		Entry
Census Bureau:		Centralia-Chehalis district, geology	
bulletin.....	5675	and coal resources.....	509
description of its work.....	15460	Centrifuges, gas, enrichment of uranium isotopes.....	13792
employees, female proportion, occupational responsibilities.....	1474	Century 21 Exposition:	
industry releases.....	2374, 10905	naming expenses, etc.....	
publications.....		hearings.....	12311
catalogs.....	2353, 10883	law.....	15627
monthly supplements.....	2352, 10884	reports.....	14204, 14252, 14470, 15866
governments, annual reports scheduled.....	13827	views.....	14202
releases.....	2375, 10906	Ceramals:	
schedules.....	216, 5684	catalog of technical reports, 1940-59.....	15445
special censuses, list.....	1472, 8189-90, 4351, 8461	turbine stator blades for use at elevated gas temperatures, evaluation.....	5283
working paper.....	17286	Ceramics:	
Center of gravity, see Center of mass.		catalog of technical reports.....	15446
Center of mass:		coatings with high reflectivities and emissivities for use in aircraft power plants.....	15361
location of center of gravity effects on transonic flutter characteristics of 45° sweptback wing.....	3916	design for Chinese refractory plant with daily output of 2 tons of ceramics.....	12906
vertical accelerations at center of gravity of transport airplane taxing over obstacles.....	16872	ductile.....	
Center-of-pressure, ballistic missiles.....	15064	factors affecting plasticity of sodium chloride, lithium fluoride, and magnesium oxide single crystals.....	16901
Central Administration of Geodesy and Cartography, Czechoslovakia, long-range perspective of scientific work.....	5028	introductory study of ductility in polycrystalline sodium chloride and magnesium oxide.....	16902
Central America, west coast, sailing directions.....	14772	glass and ceramics (USSR periodical), abstracts.....	10799
Central Institute of Health, China, status of research.....	6402	information meeting, Oct. 1-3, 1956.....	1394
Central nervous system, see Nervous system.		products and processes, Government-owned inventions available for license.....	11871
Central Radio Propagation Laboratory:		roof shingles, etc., plans for supplying Poland's construction industry.....	1891
CRPL-D series.....	2847, 11388	stability in hydrogen between 4000° and 4500° F.....	6778
CRPL-F series.....	2848, 11389	summaries of AEC physical research projects.....	13802
Central Scientific Research Institute of Geodesy, Aerial surveying and Cartography, USSR, proceedings, excerpts.....	1797	theory of flexural piezoceramic circular plate sound radiators.....	9435
Central States:		Cereals:	
cattle and sheep, shipments, 1958.....	9576	scab, description and control measures.....	5541
cost of transporting freight.....	3629	white grubs, control.....	7049
cotton gin equipment, 1957, south central area.....	15260	Cereals as food, Federal supply schedule.....	1633
home fruit garden.....	8316	Cerebellum, see Brain.	
North:		Cerebral cortex:	
cattle, calves, etc., shipments to, by state of origin, 1941-57.....	3080	adrenocorticotrophic hormone and cortisone effect on nervous processes, USSR study.....	6610
food consumption.....	17169	development of area 17 during 2d half of intrauterine life, USSR study.....	14950
growing seed flax.....	92	electrical phenomena in cortical terminals of analyzers in dogs during formation of conditioned defense reflexes (USSR).....	632
principal electric facilities, map.....	16337	electroencephalic analysis of effect of aminazine on cerebral hemispheres, USSR.....	633
pulpwood.....		functional condition under conditions of protein sensitization, USSR study.....	6491
harvest, 1957.....	475	interrelation with internal organs, phasic states of excitability as related to individual psychological characteristics of students, USSR study.....	630
prices and measurements.....	479	role in spatial orientation, USSR studies.....	14935
production, 1958.....	10166	Cerebrovascular system, cerebral circulation in patients with hypertension, effect of oxygen therapy, USSR studies.....	6605
South, principal electric facilities map.....	16340	Cerebrum, see Brain.	
Central States Forest Experiment Station:			
forest pest observer.....	11189		
forest survey release.....	7808		
miscellaneous releases.....	3555-56		
report, 1958.....	6234		
station notes.....	455-		
479, 1676, 7809-10, 9091, 10165-167, 12724-725, 14711.	10165		
technical papers.....	480,		
3557, 7811, 9092-93, 14712, 16427.	14712,		
Central Valley project:			
Delta-Mendota Canal, design and construction, technical record.....	15176		
report, 1958.....	6922		
San Luis unit—			
construct—			
reports.....	6023, 8663		
views.....	8863		
construction agreement with California, hearings.....	7469, 7625		
Tracy pumping plant, etc., design and construction.....	13568		

# JANUARY-DECEMBER

	Entry
Cerium:	
liquid-liquid extraction.....	17709
separation from other rare earths by ignition of nitrates.....	5645
Cerium fluorides, cerous fluoride, low-temperature heat capacity and high-temperature heat content.....	17708
Cerium isotopes, radioactive, excretion, effect of complex-formers, USSR studies.....	5106
Cerium sulfides, monosulfide, sesquisulfide, low-temperature heat capacities and entropies.....	10450
Cermets, <i>see</i> Ceramals.	
Certificated air carriers, <i>see</i> Air carriers.	
Certificates, <i>see</i> types of certificates or subjects involved.	
Certificates of indebtedness, <i>see</i> Treasury certificates of indebtedness.	
Certification of air carriers, <i>see</i> Air carriers.	
Certified mail, <i>see</i> Mail matter.	
Cervix uteri, cancer examinations.....	17040
Cesium isotopes, Cs-137, penetration through placental and mammary barriers, USSR study.....	14941
Ceylon:	
agricultural economy.....	3516
import tariff system.....	4884
living conditions.....	3537, 4888
surplus agricultural commodities, agreement.....	9518, 17100
CGS series.....	2410, 10942
Chaco Canyon, Pueblo del Arroyo structural explorations.....	10583
Chad, sending gift packages to.....	16409
Chains, roller, power transmission, heavy duty, offset sidebars, single-pitch, military standard.....	17371
Chairs, aluminum, general office, Federal standard.....	16362
Challenge of space age (address).....	2016
Chalmette National Historical Park: general information.....	6828
historical handbook.....	1111
Chamaecyparis thyoides, <i>see</i> Cedar.	
Champlain, Samuel de: exploratory voyages, celebration in 1959, President to proclaim—law.....	9788
reports.....	8825, 9842
Chan, Tse Man, relief.....	9974, 11948, 14126
Chan Wang (periodical): articles.....	16513
Chancroids, management in general practice.....	2112
Chaney, Michael, relief.....	8779, 13917, 14120
Ch'ang-sha, China, reports of municipality for 1957 and 1958.....	9185
Chantilly, Va.: preservation of Sully Plantation buildings on airport site—hearings.....	12297
law.....	14072
reports.....	12206, 14500
reimburse owners and tenants of lands acquired for airport, for moving expense, hearing.....	12297
Chantilly International Airport, designate, hearings.....	12297
Chaplains:	
Navy, manual.....	17796
Navy, no greater service.....	3982
official services, eliminate report to Secretary of Navy—law.....	12018
reports.....	4584, 12467
services, PACAF basic bibliographies.....	11676
Chappel formation, <i>see</i> Mississippi period.	

	Entry
Character, trait ratings, use in assessment of Air Force captains.....	5603
Charcoal:	
activated, desorption dynamics with porous absorbents, USSR study.....	9265
air seasoning of wood reduces production time.....	14732
fluorine disposal by reaction.....	5273
production.....	3558
time and carbonizing temperatures effect on quality from clinder-concrete block kiln.....	7830
Charged particles, <i>see</i> Particles, Charged.	
Charging gadget for pocket dosimeters.....	1931
Charitable contributions, <i>see</i> Charities.	
Charitable institutions: research and development expenditures of foundations, 1957—tax exemptions and other privileges granted by Federal Government, hearings.....	16971
Charities:	
contributions, unlimited tax reductions, amend internal revenue code, report.....	1549
estate tax deduction if subjected to foreign death taxes—law.....	15830
reports.....	14030
Charleston, S.C.: electric facilities of area, map—harbor improvement, engineer report—departmental edition.....	4591, 12421
document edition.....	16341
Charlotte, N.C., motor vehicle accident.....	4788
Charter Commission, District of Columbia, establish, hearings.....	4443
Charts:	
Federal supply schedule.....	10205
Labor Statistics Bureau, wall chart.....	10032
selected charts available from Agriculture Dept., catalog—sold by Superintendent of Documents, price list.....	417
<i>see also</i> Maps and charts—Organization charts— <i>also</i> special subjects.	3824
Charyk, Joseph V., nomination, hearing.....	9613
Chassin, Ben, relief.....	6908
Chattahoochee River, Walter F. George lock and dam, hydraulic model investigation.....	12525
Chattanooga, Tenn., electric facilities of area, map.....	11887
Chattanooga shale, <i>see</i> Shale.	
Chauveurs, Warehousemen, and Helpers of America, International Brotherhood, <i>see</i> International Brotherhood of Teamsters, Chaffeurs, Warehousemen, and Helpers of America.	14605
Cheat, <i>see</i> Bromegrass.	16341
Check lists, <i>see</i> Checklists.	
Checking prepackaged commodities, manual for weights and measures officials.....	
Checklists:	
business service.....	6803
employment certification offices.....	2417, 10948
Federal supply schedules.....	10309
State publications, monthly.....	2597, 11134
title page and index, 1958.....	2771, 11311
<i>see also</i> names of departments, etc., issuing checklists— <i>also</i> subjects.	9327



# INDEX, 1959

	Entry		Entry
Checks:		Chemical reactions—Continued	
clearing and collection, regulation—	3477, 14642	organoleptic changes in carbohydrates and proteins produced by radiation sterilization—	4035
drawn on Treasurer of U.S., placing and removing stoppages of payments, instructions—	421	precipitation processes in copper-iron alloys—	17255
forged, Government, how to guard against—	8211	Chemical-resistant silk screen inks for manufacture of printed circuits—	16982
payment and reconciliation memoranda, CP&R series—	421	Chemical warfare:	
Cheddar cheese, <i>see</i> Cheese.		agents, hearings—	12312
Cheeks, malignant neoplasm of buccal cavity, death rates, by age, color, and sex, 1949-51—	10517	collective protection, engineering manual—	4787
Cheese:		defense, in aviation, Yugoslavia studies—	5132
cheddar, farm to retail price spreads in South—	7058	officers work in process of planning naval combat operations, opinion—	1863
cottage, southern and northern markets, market potential (paper)—	5496	research, report—	14215
filled, prohibit export under Public law 480, 83d Cong., of dairy products for manufacture, hearing—	14325	use of combat agents at sea and measures for protection, Yugoslavia study—	3711
Chehalis, Wash., geology and coal resources of district—	509	vaporator, device for measuring vapor source strength of contaminated surfaces, background and prototype—	17806
Che-hsueh Yen-chiu (periodical): articles—	9238, 16518	weapons, civil defense protective measures and methods, USSR study—	7936
Chekang Provincial People's Council, work report, 1957-58—	4981	<i>see also</i> Biological warfare.	
Chelan County, Wash., mining methods and costs, Holden Mine—	1984	Chemical Warfare Laboratories, CWL special publications—	4364
Chelates:		Chemical Warfare Service, Army, organizing for war, U.S. Army in World War II—	13307
metal—		Chemicals:	
method for oxygen production, investigation—	13320	agricultural uses (address)—	3045
substituent effects of stability—	180	amendments for improving sodium soils—	3050
Cheltenham Magnetic Observatory, magnetograms and hourly values—	3236-37, 9741	and allied industries, outlook for 1959 and review of 1958—	1435
Chemical additives, <i>see</i> Additives.		and allied products—	
Chemical analysis, <i>see</i> names of substances analyzed.		manufacturing, labor turnover rates per 100 employees—	7984
Chemical Corps, Army:		prices and price indexes, 1957—	894
Engineering Command report—	17287	and chemical products, Federal supply schedule—	1630, 4831, 6173, 9020
specifications, index—	8464	and products, manufacturing plants, location by county and employment size—	7220
revision lists—	2379, 10910	chemical industry (USSR periodical), abstracts—	10787
Chemical elements:		China, paper-chemical plant, explanations of designs—	14806
ionization potentials, table—	1102	coal, minerals yearbook chapter—	16688
Salt Wash member of Morrison formation, Jo Dandy area, Colo.—	16466	coke-chemical industry of Chinese People's Republic—	12857
symbols, table—	1102	coke-chemical plants construction in USSR—	804
Chemical engineering:		composition of atmospheric precipitation in USSR—	5140
general course, need for redeveloping in higher educational institutions, USSR study—	5148	composition of quaking aspen grown on different soil types—	9099
role increasing, USSR—	5147	control of microorganisms in dehydrated vegetables—	4036
Chemical engineers, training improvement, USSR problems—	7915	fibers, report on 1958 all-China conference—	6536
Chemical equilibrium, <i>see</i> Equilibrium.		homopolar bonds in chemical adsorption—	9264
Chemical industries, <i>see</i> Chemicals.		industry—	
Chemical industry (Chinese periodical):		China, selected translations and extracts—	9207
abstracts—	10787	Chinese, information—	582
articles—	9222	Chinese, selections from periodical Hua-hsueh Kung-yeh—	1753
Chemical laboratories, equipment, Soviet abstracts—	770-771, 773	Communist China, selected translations and extracts—	6354, 6363, 9206, 13143, 16511
Chemical methods for routine bioassay—	7142	Czechoslovakia—	664
Chemical processing plants, <i>see</i> Chemicals.		inorganic, facts for industry—	2371, 10902
Chemical reactions:		partnership with agriculture (panel discussion)—	1286
correlation of chemical changes with flavor development in radiation sterilized foods—	4037		
dissociation, effects on steady one dimensional flow—	15082		
enzymatic hydrolysis of fish scales—	426		
galvanic corrosion properties of titanium alloys—	942		
mechanisms and kinetics, uses of isotopes, bibliography—	17261		
nitrogen metabolism integration processes, USSR study—	17651		



	Entry
<b>Chemicals—Continued</b>	
industry—continued	
physico properties of aluminum bath electrolyte containing magnesium fluoride, USSR, study	1745
Poland, demand for electric power, long-term development	687
prospects in eastern Siberia	14853
reports	2354, 10807
laboratory evaluation of promising compounds as repellents to flour beetles	7002
materials consumed by specialized establishments in selected industries	5077
plant protection, USSR study	14851
plants, investment and operating costs, bibliography	9338, 14999
products and processes, Government-owned inventions available for license	11866
range weeds control, handbook	8313
research at Forest Products Laboratory	6251
soil, effect on susceptibility to frost	3427
toxic, threshold limits, Air Force pamphlet	4523
USSR, coke-chemical industry, construction of new installations, see also Organic compounds—also names of chemicals	803
Chemicals and Plastics Division, technical report	10573
<b>Chemistry:</b>	
analytical—	
in nuclear reactor technology—	
instrumentation, remote control techniques, and nucleonics	8409
particle-size analysis	8410
specific applications of diverse methods of analysis	7155
ORNL master manual of methods	15423
Soviet abstracts	710,
735, 765, 769-771, 773-775, 785-786, 1827, 1857-58, 1860, 3748, 3752, 3762, 3765, 3768, 3772, 10321, 13118,	9129
strontium in natural water, methods for determination	7935
atomic engineering, USSR study	14849
Bearing Sea biogenous elements, USSR study	15420
boron and boron compounds, literature search	662,
chemical technology, Soviet abstracts	723, 736, 756-761, 766-768, 784, 787, 789, 791-792, 1818, 1829-30, 1839, 1861, 3740, 3743, 3747, 3755-56, 3762, 3765, 3768, 3772, 3778, 3786, 5045, 5060, 5075, 6549, 6546, 10289-290, 13062, 13164, 13186-187, 13214,
chemistry and chemistry technology, news of Institutes of higher learning, USSR, abstract	10843
chemistry and technology of fuels and oils (USSR periodical), abstracts	8427, 10788
coke and chemistry (USSR periodical), abstracts	10789
cross-linking of polyurethanes	4278
Department of Chemical Sciences, Academy of Sciences, USSR, news, abstracts	8438, 10835
fields, scientific activity of Moscow University during postwar period	6624
fishery products research	16374

Chemistry—Continued	
gravimetric method for analyzing blast-furnace top gas	5209
high molecular, Soviet abstracts	13164, 131214
high molecular compounds, Soviet abstracts	10289
high molecular substances, Soviet abstracts	662-663, 736, 761
high polymer, Soviet abstracts	6540, 13034
histochemistry of brain phosphatase in rabbits during ontogenesis, USSR study	1662
important problems of higher training, USSR study	5146
industry and teaching, need for developing, USSR	1890
journal of analytical chemistry (USSR periodical), abstracts	10818
journal of general chemistry (USSR periodical), abstracts	7179, 10820
laboratory equipment, Soviet abstracts	662, 770-771
marine problems and developments in Communist China	18549
research of Institute of Oceanography, Academy of Sciences, USSR	16542
new horizons for development, USSR	13272
oceanographic, south Atlantic Coast	7755
phosphorus, tautomerism in	5348
physico-chemical mechanics of materials, development	6422
progress of chemistry (USSR periodical), abstracts	10855
role in biological problems, USSR study	12835
role in premixed combustion phenomena	7078
scientific reports of higher schools, chemistry and technology (USSR periodical), abstracts	10864
series, herald of Leningrad University, abstracts	10796
Soviet abstracts	708-711
723, 735-737, 742, 750-762, 765-771, 773-776, 781-787, 789, 791-792, 1818, 1826-30, 1839, 1851-54, 1857-61, 3740, 3743, 3745-49, 3751-52, 3755-56, 3759, 3761-65, 3768, 3771-72, 3774-79, 3785-86, 5045, 5060, 5075, 6481, 6540, 6543, 6546-47, 6549-50, 6565, 6567, 10281, 10286, 10289-91, 10301-303, 10316, 10321, 13011, 13016-17, 13034, 13056-57, 13062, 13067, 13084, 13086, 13106-7, 13118, 13120, 13123, 13164, 13180-187, 13214, 14882, 14892, 16567-568, 16582, 17594, 17601, 17625.	
strontium in natural water (series)	91299
uranium, collected papers	9668
wood, publications list	10170
see also Analytical chemistry—	
Biochemistry—Chemical engineering—Cosmochemistry—	
Cytochemistry—Geochemistry—Hydrochemistry—Inorganic chemistry—Organic chemistry—Physical chemistry—Radiochemistry.	
Chemists:	
careers in research, examination announcement	15536
examination announcement	57222
discontinuance notice	15527
needed in national economy of Soviet Union	86

# INDEX, 1959

	Entry		Entry
Chemists—Continued		Chicago and North Western Railway	
research opportunities, examination		Company, railroad accident—	17512
announcement—	15533	Chicago Creek, Colo., geology and ore	
Chemoreceptors, carotid sinus, allergic reaction—	6492	deposits of area—	9121
Chemotherapy:		Chicago, Milwaukee, St. Paul & Pacific R.R., accidents—	547,7887, 14791
antibiotics, current problems of application, USSR studies—	6439	Chicago River:	
radiation sickness in monkeys under experimental conditions, USSR study—	13267	west arm of South Fork of South Branch, declare nonnavigable—	
Cheney division, see Wichita project.		law—	14070
Cheng, Fu Sheng, permanent residence, opposing, report—	15783	reports—	12198, 14513
Cheng, Samuel W. S.:		Chicago, Rock Island and Pacific R.R., accident—	7885
consultation with staff of Un-American Activities Committee—	8756	Chickamauga Dam:	
print additional copies, report—	14284	plaque in honor of Sam D. Reynolds, erection—	
Cheng-chih Hsueh-hsi (periodical):		law—	14096
articles—	9214, 10246, 13176	reports—	14322, 14510
Ch'eng-tu, China, people's council, work reports, 1957-58—	9174	Chicken mites, poultry mites, how to control—	3062
Chepino Basin, Bulgaria's resort place, description, etc., of recreation potentialities—	851	Chickens:	
Cherokee County, Tex., soil survey—	6940	broilers—	
Cherries:		chicks placed on 22 States, 1958—	7010
production, use, value, 1957-58—	9582	commercial, 1957-58, by States—	5485
sour, crop report—	11588	feeding—	3047
Chesapeake and Ohio Canal National Historical Park:		production in 22 States, 1958—	5487
establish—		production, selecting breeding stock—	97
hearings—	4653, 8735	pullet chicks for broiler hatchery supply flocks—	2259, 10711
report—	12180	chicken in the freezer—	15310
Chesapeake Bay:		farm production, disposition, cash receipts and gross income, by States, 1957-58—	5485
fisheries, annual summary, 1957—	1635	farms, Jan. 1, 1958-59, by States—	5485
revision—	7739	frying—	
storm warning facilities chart, 1959—	5460	marketing spreads, U.S. and selected cities—	5480
Cheyenne, Wyo.:		sold in San Francisco, marketing costs and price spreads—	7056
land conveyance by GSA—		layers and egg production, 1957-58—	5486
hearing—	12539	layers and rate of lay, Jan. 1957-Mar. 1959—	7022
report—	16092	national poultry improvement plan, breed distribution, by States, 1947-48, 1957-58 and 1958-59—	17183
Cheyenne Indians, Oklahoma lands in trust, reconveyance by Interior Dept., report—	8642	number raised, 1959, preliminary estimates—	11574
Chi'ang, people, customs and religion—	1172	processing, economies of scale—	11573
Ch'iao-wu pao (periodical):		tested by official State agencies, monthly report—	2267, 10719
articles—	16514	Chicory, market diseases—	8306
Chicago, Ill.:		Chief Counsel for Internal Revenue Service:	
aircraft accident—	17290	appointment by President—	
census of business, 1954, central business district statistics, attachment A—	15462	law—	15732
Chicago River, west arm of South Fork of South Branch, declare nonnavigable—		reports—	15911, 16182
law—	14070	Chief Inspector Bureau, Post Office Department, records, preliminary inventory—	15091
reports—	12198, 14513	Chief Joseph Dam:	
communist infiltration of industry, etc., hearings—	12316	construction facilities, contract to purchase municipal services from Bridgeport, Wash., validate—	
electric facilities of area, map—	16336	law—	14045
floral marketing by wholesale growers—	7061	report—	9877
mercantile exchange, futures trading and open contracts in eggs, onions, potatoes and butter—	2429, 10962	Chief of Staff, Army, see Joint Chiefs of Staff, Defense Dept.	
movement of eggs into retail channels—	15254	Chieh-fang chun Pao (periodical):	
occupational wage survey—		articles—	6471, 10239-40, 10338
departmental edition—	13285	Child care, see Children.	
document edition—	12035	Child development, see Children.	
Pan American games, Aug. 27-Sept. 7, 1959, appropriations—		Child health, see Children.	
law—	7304	Child Health Day:	
proposal—	7498	date, changing—	
reports—	4604, 5858, 6021	law—	15716
Sheet Metal Workers International Association, improper activities investigation—	3387A	reports—	15869, 16181
standard metropolitan area, housing inventory characteristics, 1956—	5704	Child labor:	
		agricultural employment—	7974
		fair labor standards act, interpretation bulletin—	10632

# JANUARY-DECEMBER

	Entry
Child labor—Continued	
history of Federal regulation-----	10400
laws—	
employment certificate system,	
administration-----	7973
self-training unit for youth place-	
ment workers-----	16652
Child life, <i>see</i> Children.	
Child placing:	
adoption and foster home costs,	
study-----	3191
District of Columbia, amend act	
regulating-----	14032
law-----	12257, 12413
reports-----	
Child study, <i>see</i> Children.	
Child welfare, <i>see</i> Children.	
Child welfare institutions, public,	
psychiatric consultation, report	
of project-----	5717
Childbirth, complications, death rates	
by age, color, and sex, 1949-	
51-----	15107
<i>see also</i> Labor (obstetrics).	
Childhood Education International	
Association, <i>see</i> Association	
for Childhood Education Inter-	
national.	
Children:	
accidents, causes and prevention---	5715
art, international exchange, report	
of conference-----	12597
Azerbaijdzhan SSR medico-sanitary	
service-----	16610
care, birth to middle teens, Govern-	
ment publications, list-----	9467
child health services—	
1956 statistics-----	15491
1957 statistics-----	15493
child welfare—	
1957 statistics-----	15493
1958 statistics-----	15497
child welfare services, cost analysis,	
study-----	3191
child welfare specialists, examina-	
tion announcement-----	1490
children's estate tax deduction,	
hearing-----	12321
child's brain, abstraction and gen-	
eralization as principal physiol-	
ogical function, USSR study-----	6484
Comptrollers General dependents	
annuities—	
law-----	11974
reports-----	8711, 9986
crippled or retarded, athletic games	
for benefit, exempt from ad-	
missions tax—	
law-----	15684
reports-----	14234, 14534
Czechoslovak pediatrics in past---	3684
deaf-mutes practically without	
hearing, methods of fixing	
speech habits, USSR study-----	17635
dependent—	
State aid under social security	
act—	
information folder-----	9457
insert-----	17821
welfare services under social se-	
curity act, Federal and State	
implications for administra-	
tion-----	2135
development, role of speech, USSR	
study-----	14966
District of Columbia, persons de-	
fending actions of minor, give	
releases of liability, etc.—	
law-----	15636
reports-----	14307, 14463
education—	
educating in grades 4, 5, and 6---	3412
educational benefits for children	
of servicemen dying from serv-	
ice-connected disability, hear-	
ings-----	10050

	Entry
Children—Continued	
education—continued	
federally affected areas, annual	
report, 1958-----	4772
federally affected areas, financial	
assistance, amend law, hear-	
ings-----	17332
fund for children of disabled war	
veterans-----	2169
retarded child, bibliography----	6091
exceptional—	
government publications cover-	
ing facts, list-----	5376
research program, studies in	
progress-----	8406
feeding program, agreement with	
Italy-----	17115
films on child life, list-----	8465
financing public child welfare serv-	
ices, 1956, statistics-----	15489
foods to serve for lunch, poster---	15267
grades 4-6, educational programs,	
selected references-----	4781
health characteristics, statistics,	
July 1957-June 1958-----	17829
hungry, problems in D.C., hearings-	
infectious diseases, handbook---	8887
USSR studies-----	5109
intercountry adoption, guidance	
manual for service couples,	
DOD pamphlet-----	3132
interdisciplinary journal for profes-	
sions serving children-----	2380, 10911
index-----	5716
lead poisoning recognition-----	1153
mental development, diagnosis of	
critical psychic moment, USSR	
study-----	14956
mental health for parent and child,	
reading list-----	16948
mentally retarded, home care and	
training, manual for parents---	3192
mortality, 1955 statistics-----	15492
nervous system, typological charac-	
teristics, experimental study	
from play material, USSR	
study-----	14960
of U.S. citizens, naturalization ben-	
efits-----	4943
pediatric science, role in reduction	
of morbidity and mortality,	
USSR study-----	14925
placed for adoption, personal ex-	
emption as dependent for in-	
come tax purposes—	
law-----	15740
reports-----	15784, 16135
placing in family homes in D.C.,	
amend act regulating—	
law-----	14032
reports-----	12257, 12413
pronunciation mastery, mechanism	
during 2d and 3d year, USSR	
study-----	16592
psycho-social change, evaluative re-	
search, guide lines-----	11814
public welfare, principles and lan-	
guage for drafting legislation---	1477
publications concerning, price list-	
research programs, studies in prog-	
ress-----	8466
school-age population projections	
by States, 1959-63-----	8446
served by child welfare programs,	
1957, statistics-----	15488
space perception formation, USSR	
study-----	14962
speech and hearing impairment,	
educational needs-----	3415
with missing arm or leg-----	17289
your gifted child-----	1478
<i>see also</i> Adoption—Child labor—	
Child placing—Children's	
homes—Cripples—Juvenile de-	
linquency—Orphans.	

# INDEX, 1959

	Entry
Children's Bureau :	
conference with Public Health Service, etc., 1958 proceedings.....	5383
conference with State and territorial dental directors and P.H.S., 1959 proceedings.....	17048
folder series.....	1475-76, 5714-15, 17289
publication series.....	1478, 3191-92, 5717-18, 8465, 11814, 15485,
publications, price list.....	10562
statistical series.....	15486-497
Children's clothing, <i>see</i> Clothing.	
Children's homes, cost of care in institution, study.....	3191
Children's Institute, Inter-American, <i>see</i> Inter-American Children's Institute.	
Chile :	
deciduous fruit industry.....	445
economic developments, 1958.....	7794
economy, basic data.....	6225
foreign investment law and regulations.....	4875
foreign market survey of household electrical appliances.....	15449
preparing shipments to.....	14702
satellite tracking stations program, agreement.....	10600
sending gift packages to.....	16404
weather stations, agreement.....	4088
Chimney Rock National Historic Site, general information.....	17783
China :	
Academia Sinica, oceanographical operational conference summary.....	12985
agricultural briefs.....	10237
agricultural cooperatives and formation of communes.....	600
agriculture—	
Honan province's draft plan to expedite.....	699
technical advances in field management and production and use of fertilizers.....	17520
Amur and Ussuri river regions of Heilungkiang province, economic geography.....	1748
articles from Chan Wang.....	16513
atomic energy cooperation for civil uses, agreements.....	13613
Buddhism, theory and activity, articles from Hsien-tai Fo-hsueh.....	6570
Central Institute of Health, scientific research, status.....	6402
Chinese currency repayments to Development Loan Fund, agreement.....	6954
Chinese People's Republic—	
coal industry development.....	560
participation of masses in State organs.....	561
water transport and related matters.....	1752
Christian activity, articles.....	6448, 9232
coal industry, translations and abstracts.....	9173
coast, sailing directions.....	17500
change.....	530
coking operations and coal production.....	6355
communism—	
articles from Che-hsueh yen-chiu.....	16518
articles from Hsien-tai Fo-sueh.....	12874
articles from Hung Ch'i.....	5016, 6354A, 9161, 9176, 9178, 9180, 9193, 9236, 10235, 12889, 14810, 17543.
articles from Min-Tsu Yen-Chiu.....	12888, 14804, 14809

	Entry
China—Continued	
Communist—	
agricultural principles and practices.....	10241
agriculture, new techniques and production results.....	14832
agriculture production, trade, etc.....	16397
annual plans—	
Fukien Province, 1959.....	17585
Heilungkiang Province work report, 1958.....	14904
Honan Province reports, 1958.....	13210
Inner Mongolia report, 1957.....	13178
Kansu Provincial People's Council, work report, 1958.....	13231
Kirin Province economic plan report, 1958.....	16588
Shantung national economic plan, 1959.....	16575
Shantung Province reports, 1958-59.....	13199
Sinkiang-Uighur Autonomous Region People's Council, work report.....	13203
Tsinghai 5-year plan results.....	14878
Tsinghai 1958 work report and 1959 plans.....	16576
An-shan municipality, reports on.....	13142
antiwaste, anticonservatism to speed up tasks for big leap forward in 1958.....	3663
botanical geography by regions.....	13189
boundary changes of Chinese Administrative units for Nov. 1958.....	6509
Buddhist activities, articles.....	6376
budget during transition period.....	6357
budgets.....	17555
chairman Mao Tse-tung's cook's reminiscences.....	6559
chemical industry—	
information.....	582
selected translations and extracts.....	6354, 6363, 9206-7, 13143, 16511
Chien-su peoples' commune, history of development.....	9240
Christian activity, articles.....	5059, 6508
coal mining goals, 1959.....	16574
coal mining industry, 1958.....	14825
coal mining information.....	4989
coal mining records, 1958, and 1959 goals.....	12830
coal mining techniques and production, 1958, translations and extracts.....	13172
communes, plans and data.....	6343
communes, system of ownership and changes in family system.....	14889
construction industry, selected information.....	4974-75, 4983
construction materials industry, translations.....	17551
cotton textile exports, growth and effect on world markets.....	6210
denial of passports to correspondents, hearing.....	339
diesel engines, standardization tables.....	6553
digest.....	14829, 16529, 17531
domestic trade.....	703, 707, 5048, 6473
economic geography investigations, methods used.....	12883
economic services, translations.....	16557, 17613
economy in transitional period, review of Hsu Ti-Hsin's book.....	16557
education, articles.....	6370
electric power production development.....	4992



	Entry		Entry
China--Continued		China--Continued	
Communist--Continued		Communist--Continued	
evaluation of history, translations from political and sociological publications.....	16558	petroleum exploration, extracts.....	9210
forestry industry, selected translations and extracts.....	6356	petroleum industry.....	17527
forward leaps at laboratory of semiconductors, Institute of Applied Physics, Academia Sinica.....	9211	petroleum plans and developments, 1958.....	14798
Heilungkiang Provincial People's Council work report.....	9215	petroleum refining extracts.....	5042
Hopeh provincial work reports.....	14903	petroleum, research, production, and utilization.....	12902
industrialization plans.....	6496	physical and economic geography--	
industry and materials.....	14825, 16574, 17527	development.....	16579
industry and raw materials, translations.....	17551	translations.....	17552
Kansu Province five-year plan implementation.....	10328	pioneering world's new age in socialism.....	10329
Kiangsi Province 1957 final budget and 1958 draft budget, report.....	5086	plankton investigation.....	16552
leap forward in 1958, German newspaper article.....	6389	political and sociological publications, translations.....	13221, 13229, 14886, 14889, 16537, 16558, 17554, 17592, 17611
light industry, selected translations.....	13183	population, 1953.....	13867
light industry, translations and extracts.....	6436, 14807	production movement initiation.....	586
literacy drives, educational development and progress, translations from political and sociological publications.....	13229	progress in physical sciences.....	6561
local party and government activities.....	661	questions of logic and inheritance of China's inheritance, symposia to develop free discussion, etc.....	14812
looking back on 1958 achievements, etc.....	6557	radioelectronics development.....	5098
manufacture and maintenance of electronics equipment.....	9218	religion.....	704
Mao Tse-Tung, Party and State attitude toward his capacity as leader.....	14957	religious articles, selected translations.....	5089
marine chemistry and its development.....	16549	religious circles, activities, articles.....	6563
Marine Inspection Bureau, work.....	14802	religious persecution.....	17526
marine physics, progress and task.....	16548	representative survey statistical method.....	6495
metallurgical activities, conference of Academia Sinica.....	6556	scientific research, chemical fibers and plastics research conference.....	6536
metallurgical industry.....	558, 602	scientific research, shifting river courses in Kwangtung Province.....	13121
Meteorological Society, 2d and 3d enlarged council meetings, summary.....	10344	seaweed utilization.....	16551
meteorological work.....	9226	selected articles on local nationalism.....	9209
minority nationalities, selected articles.....	17525	semisupply and semiwage system in rural communes, propaganda program of propaganda department of Hopeh provincial party committee.....	10230
national economy development and people's communes.....	14805	Shantung Provincial People's Council, work and budget reports, 1958.....	13124
nationalities and religion translations from political and sociological publications.....	17554	socialist approach to scientific research work in Tsing-hua University.....	9217
new stage of political power of communes, translations.....	14886	specializations in higher technological education.....	8946
non-technical education.....	706	submarine oil resources and marine geology.....	16550
oceanography research tasks (speech).....	16547	survey of combined-practice clinics using Chinese native and western methods.....	9212
paper-chemical plant, explanations of designs.....	14806	surveying and cartography report on exhibition.....	17614
paper industry in 1958, selected translations and extracts.....	14833	Szechwan CCP directive on collective life, etc.....	10326
people's communes in process of reorganization.....	17629	technological revolution.....	3664
people's communes, questions and answers.....	9164	10 days stay in Communist China.....	6392
People's Republic, economic relations with USSR after formation.....	6498	textile industry.....	764, 5096
periodical Chinese Moslem, articles.....	6562	and materials in translation, technical changes.....	16523
persecution of churches.....	8756	selected translations.....	16586
print additional copies, report.....	14284	theories on productivity and wages, translations from political and sociological publications.....	13221
petroleum exploration and technical advance.....	12862	transformer manufacturing industry, development.....	12890
		translations of political articles from China mainland press.....	3654, 6366, 9194, 10249



# INDEX, 1959

	Entry
China—Continued	
Communist—Continued	
translations on economic services—	
1959, directive on implementation	13184
problem of division of labor between physical and mental	17584
Tsinghai Province 5 year development plan, 1957-62	9168
United Nations representation, opposition of Congress—	
report	14223
views	14223
wages, manpower, and standard of living	705
newspaper summaries, etc.	6452
water conservation	14800
water conservation construction	593
weather forecasting	9230
Wei-hsing commune, activities	9216
work report of Kiangsi Provincial Party Committee	10341
world situation, articles	4966
contemporary, democratic and socialist structure	557
design for refractory materials plant with daily output of 2 tons of ceramics	12906
development, importance of oceans	16546
dry distillation of coal and motor oil	6347
fattening hogs and increasing wheat yields, improved methods	6358
food, habits and ways of serving	10210
foreign relations, collected documents published in 1958	6377
foreign trade of USSR, statistics, chronology and bibliography, 1618-1956	6499
forestry industry, selected translations and extracts	5007
Goran Malmquist's views	6385
growth of Marxism	13144
health care	6500
Hei-lung Chiang and Hu-lun-pel'erh regions, climatic conditions	12882
industry, selected information on planning and statistical work	17524
inflation situation	594
Kansu Provincial Statistical Bureau's 1957 national economic plan, report	702
Kiangsi provincial reports	10247
land forms of Chang-Chu-Kou in Ching Pien of Northern Shensi	14797
language, phoneticization	9213
light industry—	
plans for management by people's communes	10228
work review, 1957-58	9172
Liu-Hsi Coal Mine combine crew establishes new world record for daily cutting and loading operations	3643
loan of vessels, agreement	8239
loan of small craft, agreement	17106
military information, articles	10343
motor vehicle production in 1958	4996
multichannel differential discriminator, design	6399
north, natural geographic data	1838, 5030, 5052
north-west, geographical survey	1843-45
nutritional science research, present and future	10255
Peking to Canton, surveying and mapping observations	567
penetrate seas, make use of seas	12961

	Entry
China—Continued	
people's communes (German address)	6388
people's communes, progress toward communism	12895
People's Republic—	
agriculture, development, etc.	9188
budget for 1950-57	10336
coke-chemical industry	12857
collection of laws, contents, July-Dec. 1958 periodical	17536
delineation of administrative regions	9162
elementary education, development, etc.	6348
food industry and trade, development	6364
foreign economic relations with other countries	12860
geodesics and cartography development	16579
geological-prospecting survey, achievements	17640
legal organs	10339
Peiping policy towards national minorities	5013
schools, socialist education and pedagogy	4968
socialist reorganization of agriculture	12856
State authority, development of local organs	5014
transportation	12897
people's rule, local organs	562
periodicals—	
chemical industry, articles	9222
Chieh-fang chun Pao, articles	6471
China youth, articles	6467
China's light industry, articles	9177
China's women, articles	14815
Hsin Kuan Ch'a, articles	6477
liberation army newspaper, articles	10239-40, 10338
modern Buddhism, articles	6461, 6570
national solidarity, articles	9191, 9219, 9224, 9243, 10342, 12901
nationalities research, articles	12892, 14817, 17561
nationalities solidarity	17561
new construction, articles	9241
overseas affairs bulletin, articles	16514
philosophical research, articles	9238
political studies, articles	9214, 10246, 13176
practical steps, articles	13182
Red flag, translations	14840
theoretical studies, articles	12847
world knowledge, articles	6374
petroleum production and refining activities, 1958 report	9171
pharmacology research, present and future	10257
political and sociological publications, translations	16509, 17535
problem of budgets, deficits and bonds, Ma Yin-ch'u's capitalist viewpoints	5056
public health and medicine, advances	12966
rapid development of electrical power station equipment manufacturing industry	3676
Red, communes, effect on United States, hearing	7636
religions, selected translations	4269
report of 1st all-China geological conference	10364
Republic—	
description, history, etc.	17854
loan of 2 destroyers, extension—	
hearing	12525
report	4600

# JANUARY-DECEMBER

	Entry		Entry
China—Continued		Chinese:	
Republic—Continued		communes, wages, remuneration,	
loan of 2 submarines, extension—		and commodity distribution,	
law—	11958	articles—	9156
report—	8819	modern letter writing guide for	
resell 4 C1-SAY-1 vessels to, report—	15838	Chinese families overseas—	9234
research studies currently in progress, bibliography—	1181	Chinese language, phoneticization, Communist Chinese study—	9213
reservoir dam construction and water conservation developments in 1958—	9160	Chinese Medical Workers, Society of, see Society of Chinese Medical Workers.	
science and technology report—	554	Chinese Moslem (periodical):	
scientific communism, discussion of problems—	12826	articles—	6562
scientific information report. 2378,	10909	Chinese People's Republic, see China.	
scientific research—		Ching Ma Bong, see Ma Bong Ching.	
acupuncture effect on cardiac action of dog—	10261	Chinook salmon, see Salmon.	
amniot tissue, dressing in treatment of radiation ulcer—	9198	Chippewa Indians, Lac du Flambeau band, land sale—	15779
biochemistry, present and future—	10258	Chlorides, rare earth, relative apparent molal heat contents in aqueous solutions—	1385
pathological physiology, present status and future—	12924	see also chlorides by name, e.g. Tin chloride.	
physiology, present and future—	10256	Chlorination, titaniferous slag from Idaho ilmenite—	2013
pulse transformer, self-made characteristics—	9163	Chlorine, plants, disposal problems—	17287
radiation reaction, treatment with acupuncture-moxibustion therapy, initial observation—	9197	Chlorine trifluoride, hydrazine-nitrogen tetroxide in rocket chambers—	17754
work of Laboratory of Embryology, Institute of Oceanography, Academia Sinica—	16553	Chloroacetic acid, esters as insecticides and miticides, tests—	7031
sea-going ship, Ho-Ping No. 28, record in history of shipbuilding—	3672	Chlorophyll, biosynthesis, tagged atom method of studying—	7138
Shantung Province, water conservation plan, 1959-62—	10242	Chlortetracycline, industrial wastes, use for livestock raising needs, USSR study—	10351
Sino-Soviet cooperation in field of medical science, USSR study—	6488	Choa, Andrew, relief—	14166, 15587, 16022
socialization of agriculture and rice crop—	6397	Chocolate, see Confectionery.	
surplus agricultural commodities, agreement—	15208	Choctaw Indians:	
Ta-pleh Shan area, description, etc.—	12886	land disposal, authority to complete—	
traditional medical practices combined with western medicine create new radiology—	9196	law—	14047
transition from socialism to communism, Mao lost a round—	5010	reports—	12120, 14441
translations from Hung-ch'i—	16516, 16538, 17558	Mississippi tribe, history, education, etc.—	6317
translations of political articles from China mainland press—	556, 1765, 4986, 9167	Choctaw National Wildlife Refuge, land acquisition at Jackson lock and dam navigation project, Ala., report—	15900
vegetation distribution in Yellow River Valley—	12840	Cholera:	
water conservation construction, problems—	16520	cooperative research, agreement with, Thailand—	17103
water conservation, extracts—	4984	cooperative research program, technical assistance, agreement with, Southeast Asia Treaty Organization—	13627
water conservation information, 1958—	6353	Chonacas, Efthimios, relief—	7517
water-power resources and conditions of hydro development—	693	Chordwise pressure distributions over several NACA 16-series airfoils at transonic Mach numbers up to 1.25—	10502
Yangtze and Hwai River valleys, climatic types of floods and droughts—	13047	Choristoneura fumiferana, see Spruce budworms.	
yellow communism, history, special features, etc.—	10216	Chow, Man-Yeh, relief—	12384
Yellow River floodplain, soil geography—	12885	Christianity:	
China clay, see Kaolin.		Chinese activities, articles—	6448, 6508, 9232
China Sea, see South China Sea.		Communist China activity, articles—	5059
China youth (periodical):		Christmas trees:	
articles—	6467	Montana, exports continue decline—	12733
China's light industry (Chinese periodical):		Pacific Northwest, production and marketing—	1695
articles—	9177	qualities determining choice by Ohioans—	16427
China's women (Chinese periodical):		Wisconsin, harvest estimate, 1957—	3573
articles—	14815	Christopher, George H., memorial services—	17310
Chinch bugs, control, corn, sorghum, small grains—	1308	Chromatographic analysis, quantitative, gas-liquid partition and its application to liquid solutions—	3996
		Chromite:	
		constituents, rapid analysis—	6288
		mining and development research, promotion, hearings—	3330

# INDEX, 1959

	Entry		Entry
Chromite—Continued		Citations, <i>see</i> Law.	
mining in Turkey, economic study.	10452	Cities and towns:	
reports, monthly	2795, 11339	aid in program planning for older	
Chromium:		citizens, manual	16476
alloys, iron and iron-chromium-		air pollution from automobile ex-	
aluminum, Charpy-V transi-		haust gases, control problems,	
tion temperatures	17808	USSR study	7949
chrome-plated pieces, destruction		area development bulletins	2318, 10780
due to grinding cracks	13754	block statistics program in 1960	
constituents, rapid analysis	6288	census of housing	6091
in 1958	9350	Britain, planning, building and pro-	
minerals yearbook chapter	14991	tection of atmosphere, prob-	
Chromosomes, assembly cells, biolog-		lems	7964
ical role of multiplication in		central business districts, statistics	
polyplodiation process, USSR		bulletin, census of business,	
studies	3661	1954	15462
Chronic diseases, <i>see</i> Diseases.		community industrial development,	
Chrysanthemums, cut, production and		your home town's future (ad-	
sales, 1957 and 1958	8284	dress)	273
Chrysolite, Yakutiya's kimberlite		depressed industrial areas, unem-	
pipes, as precious stones for		ployment alleviation—	
jewelry industry	1790	hearings	4737, 5922, 6049
Chu Pong, Peter:		report	5992
consultation with staff of Un-		views	5992
American Activities Commit-		education in small communities,	
tee	8756	publications, list	8948
print additional copies, report	14284	finances	11802, 15465
Chugwater, Wyo., railroad accident	3635	government, Federal-State-local re-	
Chung Ching Wei, <i>see</i> Wei, Chung		lations, hearings	3325-27
Ching		governments, finances, census of	
Chung-kuo Ch'ing-nien (periodical):		governments, 1957	13828
articles	6467	local government employment, cen-	
Chung-kuo fu-nu (periodical):		sus 1957	203
articles	14815	manufacturing by major industry	
Chung-kuo Mu-su-lin (periodical):		groups, statistics	9703
articles	6562	new dwelling units authorized,	
Chung-Ming Tao Island, land utiliza-		monthly statistical report	2756, 11294
tion, preliminary investigation		standard metropolitan areas, fi-	
report	12881	nances, census of governments,	
Churches:		1957	17278
destruction, make Federal offense,		standard metropolitan statistical	
additional authority for FBI—		areas	15440
recommendations of the Presi-		urban planning assistance program	8264
dent	3289	veterans housing, hearings	4663
report	15806	<i>see also</i> Redevelopment (city plan-	
Red China and northern Korea,		ning, etc.)— <i>also</i> names of	
persecution, consultation by		cities and towns— <i>also</i> sub-	
Un-American Activities Com-		jects.	
mittee with Peter Chu Pong,		Citizen Band of Potawatomi Indians	
and others	8756	of Oklahoma, <i>see</i> Potawatomi	
print additional copies, report	14284	Indians.	
<i>see also</i> Christianity.		Citizens Foreign Aid Committee, re-	
Chutes:		port on mutual security pro-	
cattle, variable widths, farm build-		gram	7466
ing plan	8329	Citizens of United States:	
tree-way cutting gates for sheep		citizens abroad, income tax guide	17506
farm building plan	17205	definition, amend U.S. Code—	
Cica, Mrs. John M., relief	9977, 13916	law	15692
Cigarettes, manufacturers, importers,		reports	14213, 14505
and dealers, regulations	6326	radio service, FCC rules and regu-	
Cigars, manufacturers, importers,		lations	17404-5
and dealers, regulations	6326	<i>see also</i> American nationals.	
Cincinnati, Ohio, electric facilities of		Citizen's role in cultural relations	17857
area, map	16336	Citizenship:	
Cinematography, <i>see</i> Photography.		communists, denaturalization, in-	
Cinnabar, stibnite ore, recovery of		vestigation, Pittsburgh, Pa.,	
mercury by combined flotation		area, hearings	8758
roasting process	3872	Federal textbook on citizenship	6315
Circuit Courts of Appeals, interlocu-		loss by naturalized citizens, amend	
tory relief, reasonable notice,		immigration and nationality	
report	14236	act—	
Circuit judges, <i>see</i> Judges.		law	12015
Circuits, <i>see</i> Electronic circuits—		reports	8662, 12461
Printed circuits.		requirements for U.S. shipping cor-	
Circulars, <i>see</i> names of departments,		porations having alien direc-	
etc., issuing circulars— <i>also</i>		tors, modify—	
subjects.		law	15692
Circulation of blood, <i>see</i> Blood.		reports	14213, 14505
Circulation of money, <i>see</i> Money.		<i>see also</i> Naturalization.	
Circulatory system, <i>see</i> Cardiovascu-		Citrus fruit:	
lar system.		Argentina, industry	3519
Cirrhosis of liver, death rates by age,			
color, and sex, 1949-51	13481		

# JANUARY-DECEMBER

	Entry		Entry
Citrus fruit—Continued		Civil and Defense Mobilization Office:	
Florida—		appropriations, 1960—	
export shipping tests to Europe—	7060	hearings—	7454
fresh citrus sales organizations,		supplemental, proposal—	15989
analysis of returns and practices	15318	defense mobilization orders—	2391
juice industry, economic characteristics	5544	FDA annual statistical report, 1958—	1481
shipping in wirebound crates and cartons, comparison—	17171	handbook series—	15508
foreign agriculture circulars—	2643, 11182	information bulletins—	2392, 10921
production, use, value by States—	15256	instructor's guide IG series—	11828
Texas industry marketing adjustment to crop freezes of 1949 and 1951—	8322	leaflets—	246, 1484
City planners, examination announcement—	5727	miscellaneous publication, MP series—	3199, 8468, 11829, 13873
Civil aeronautics, <i>see</i> Aeronautics.		mobilization programs, progress report, hearing—	15752
Civil Aeronautics Administration:		national and regional officials and advisory committees, directory—	5721
civil aeronautics manuals—	219-221, 1615-16, 3439-40, 4794-96, 6117-18, 7689-91, 12630-31.	change—	13872
functions, transfer to Federal Aviation Agency, law, comparative print—	7627	news features—	10922
miscellaneous nominations, hearings—	333	news, releases—	2393, 10923
operations under Federal airport act, report 1958—	3438	news pictures—	2394, 10924
procurement, small business participation, report—	1565	OCMD regulations—	10925
regulations of administrator—	1618, 3450, 10097	progress, interim statistical report—	10920
releases, manuals, and regulations, status—	11051A	publications, index—	9734
specifications—	222-244	releases—	10926
technical development reports—	245, 1619-20, 4802-10, 6122	reports on recommendations of Defense Production Joint Committee—	17315
technical manual—	1613	special promotion series bulletins—	
technical standard order TSO (series)—	10098-99	general—	2396
index—	1621	National Civil Defense Day—	2397
Civil Aeronautics Board:		technical manuals—	8470, 13878
annual report, 1958—	9729	Civil aviation, <i>see</i> Aeronautics.	
applications, etc., filed with CAB—	2383, 10914	Civil defense, <i>see</i> Civilian defense.	
appropriations, 1960, hearings—	7454	Civil disturbances, <i>see</i> Riots.	
civil air regulations, amendments—	1480	Civil Engineer Corps, Navy, bulletins, monthly—	3001, 11554
continuation, law, comparative print—	7627	Civil engineering:	
economic regulations—	9731	general, Air Force manual—	7094
functions and activities investigation—		Government interest in research (remarks)—	15175
report—	1533	Civil procedure:	
views—	1533	investigations of enforcement of antitrust laws, compel production of documentary evidence—	
history and current problems (address)—	4366	minority views—	12399
miscellaneous nominations, hearings—	333	report—	12399
orders, economic—	2386, 10917	peremptory challenges in civil cases to multiple plaintiffs—	
procedural regulations PR series—	2387, 10918	law—	15647
regulation policy statement—	2388	reports—	4557, 14529
regulations, economic—	2384, 10915	Civil rights:	
releases—	2385, 10916	America, guaranteeing (address)—	5159
reports—		education, conference—	11830
economic decisions—		housing, hearings before Commission on Civil Rights—	13879, 15511
Aug. 1954-Jan. 1955—	3197	issues, problems, progress, etc. (address)—	1959
Feb.-May 1955—	9730	legislation—	
safety enforcement decisions—		recommendations of the President—	3289
Aug. 1954-Jan. 1955—	3197	report—	15806
Feb.-May 1955—	9730	protection, etc., hearings—	9918, 12555
use of certified mail for service of process—		Civil Rights Commission:	
law—		appropriations, 1960—	
reports—	12207, 14486	hearings—	7452
weekly summary of orders and regulations—	2390, 10919	law—	11971
Civil affairs, Ryukyu Islands—	4126	reports—	8640, 9908
Civil Air Patrol, air reservist (periodical)—	2292, 10744	extend—	
Civil air regulations, <i>see</i> Aeronautics.		recommendations of the President—	3289
Civil aircraft, <i>see</i> Aircraft.		report—	15806
		hearings on housing—	13879, 15511
		nomination of George M. Johnson, hearing—	7639
		report, 1959—	15513
		abridged edition—	15512
		Civil Rights Division, Justice Dept., <i>see</i> Justice Department.	
		Civil Rights Joint Committee, establish, hearings—	9918



# INDEX, 1959

	Entry
Civil service:	
act of 1883, 75th anniversary ob-	
servance, story of civil service	
in U.S.-----	1491
career opportunities-----	
after college, what?-----	8481
medical officers-----	1496
trades and crafts-----	4898
classification act, exempt National	
Security Agency-----	
law-----	8521
reports-----	5870, 7588
competitive, recruiting, examining,	
and appointing methods, re-	
port-----	7480
engineers needed, careers with Fed-	
eral Government-----	15531
examination announcements-----	
accountant-----	3204, 4372, 4378-79, 4385
accounting clerk-----	3211
actuary-----	5729
discontinuance notice-----	5741
addressing machine and graph-	
otype operator, etc-----	5734
agricultural commodity grader-----	17300
agricultural economist-----	3209
agricultural extension specialist-----	3201
agricultural market reporter-----	5723
agricultural marketing special-	
ist-----	5723
agricultural research scientists-----	259, 3202, 15514
air safety investigator-----	8471, 8475
air traffic control specialists-----	13883
airways flight inspector-----	4380
analytical and survey statisti-	
cians-----	11845
apprenticeship and training rep-	
resentative-----	1490, 13880
architect-----	3209
astronomer-----	5726
auditor-----	3204, 17297
4372, 4378-79, 4385, 17297	
bacteriologist (medical)-----	4373
bindery workers, women-----	9735
biological research assistants-----	11842
boiler fireman-----	4386
bookbinder-----	3216, 15518
discontinuance notice-----	3223
budget examiner-----	11833
carpenter, etc-----	5735
cartographer-----	7246
chemist-----	5722
chemist, mathematician, etc.,	
discontinuance notice-----	15527
city planner-----	5727
clerks-----	254, 15523
closed microphone reporter-----	1489
commodity-industry analyst-----	5723
communications, cryptographic	
coding clerk, discontinuance	
notice-----	5744
cotton technologist-----	3210
current-----	256, 1492-93, 3217-19, 4382-84, 5737
38, 7237-39, 8478-79, 11837-838,	
13886-888, 15524-526, 17296	
cylinder pressman-----	15516
design patent examiner-----	3231
discontinuance notice-----	3222
economist-----	253
education research and program	
specialist-----	3208, 11846
educational and manual arts	
therapists-----	9740
electro-mechanical technician-----	11835
electronic scientist, metallurgist,	
etc-----	5747
electronic scientists-----	5722
electronic technicians-----	252, 1485, 8477, 15519
elevator repairers-----	17295A
engineering aid-----	3207
engineering aid (radio)-----	5748

	Entry
Civil service--Continued	
examination announcements--con.	
engineers-----	3214, 5722
career opportunities-----	15530
discontinuance notice-----	15528
equipment specialist, discontinu-	
ance notice-----	5739
executive housekeeper-----	11847
farm credit examiners-----	5749
Federal service entrance exami-	
nation-----	13882, 13884, 13894
fishery and wildlife management	
biologist-----	3210, 5725, 15517
fishery marketing specialist-----	5723
fishery methods and equipment	
specialist-----	5723
flight operations and airworthi-	
ness inspector-----	4380
foreign affairs officer-----	3226
foreign language specialists-----	4390, 9736
foresters-----	5723, 7247
general amendment-----	15532
geodesists-----	251, 4376, 5750
geologists-----	3212, 15520
discontinuance notice-----	3220
geophysicists-----	5722
guard-----	3213
guard positions-----	4381
helicopter pilot and airplane	
pilot-----	4371
historian-----	3203, 8474
immigration patrol inspector,	
suspension notice-----	11844
intelligence specialist-----	3225
landscape architect-----	3209
librarian-----	1488, 5746, 8476
management analyst-----	11833
mathematical statistician-----	11834, 11841
mathematicians-----	5722
mediator-----	265
medical officers-----	1490, 4377
supplement-----	1498
discontinuance notice-----	1494
medical technologist-----	5730
metallurgists-----	5722
meteorological aid, discontinu-	
ance notice-----	7240
meteorologist, general-----	3209
museum aid-----	5745
nurse, professional-----	4375
oceanographer-----	5726
office appliance repairman-----	8473
office machine operators-----	4374, 5742
operating engineer-----	4386
operations research analyst-----	5751
patent advisor-----	32-2
discontinuance notice-----	3224
patent examiners-----	3233
discontinuance notice-----	3221
pharmacist-----	15535
discontinuance notice-----	15529
physical science aid-----	3207
physicists-----	5722
police man, discontinuance no-	
tice-----	5740
postmaster-----	5732
printer proofreader-----	267, 15515
printers-----	
hand compositor, amendment-	
monotype keyboard and slug ma-	
chine operator-----	266, 15515
printing plant worker-----	13881
radio engineer-----	4391
discontinuance notice-----	5743
recreation director-----	1486
suspension notice-----	13895
research biologists-----	15522
research microbiologists-----	15522
research opportunities in chemis-	
try, mathematics, metallurgy,	
physics-----	15533
research pharmacologists-----	11836
research physiologists-----	15522
research psychologists-----	3206, 11831

# JANUARY-DECEMBER

	Entry		Entry
Civil service—Continued		Civil Service Commission—Con.	
examination announcements—con.		transfer of certain functions to	
research scientists..... 255, 264,	15536	Personnel Management Of-	
research work in military intelli-		fice—	
gence..... 3215		hearings..... 14576	
correction..... 8480		report..... 16224	
suspension notice..... 8485		Civil service pensions:	
resident in hospital administra-		alien nonresidents, exclude from in-	
tion..... 3205		come tax, report..... 15821	
safety engineer..... 15521		commencing dates adjustment, re-	
safety inspector..... 8472		port..... 15896	
safety promotion specialist (mari-		crediting days of service of U.S.	
time)..... 11848		commissioners for retirement	
sample questions..... 15537		purposes, amend retirement	
securities investigator..... 5752		act—	
shorthand reporter..... 1489		law..... 15671	
discontinuance notice..... 257		hearing..... 9919	
social insurance adviser..... 5724		reports..... 12185, 14525	
social insurance research ana-		Federal employee facts..... 7241	
lyst..... 5724		Federal retirement law, questions	
social science analyst..... 3226		and answers..... 15534	
social work specialists..... 1490		members of Congress, retired, an-	
State and assistant State veter-		nity to continue during re-	
ans employment representa-		employment—	
tives..... 3234, 8486		hearing..... 12306	
statisticians, discontinuance no-		report..... 14230	
tice..... 11839		retirement and disability fund,	
student trainee..... 1487,		report, 1957..... 3340	
5728, 13891, 13893		retirement report, 1958..... 8484	
technologist..... 3209		retirement system valuation, special	
teletypist..... 5733		report, 1958..... 17338	
training instructor, aviation..... 250		Civil service retirement and disability	
veterinarian..... 11832		fund, see Civil service pen-	
warehouse examiner, discontinu-		sions.	
ance notice..... 9737		Civil War, 1861-65:	
examinations—		battlefields, and mission 66 (ad-	
places where held..... 263, 7244, 13885		dress)..... 6831	
sample questions..... 7245, 11843		facts..... 15539	
examining circular ES series..... 3225-26,		United States flag to be flown at	
5746		half-staff on occasion of death	
Federal pay structure, June 30,		of last surviving veteran—	
1958..... 8482		law..... 14017	
Federal personnel manuals..... 2400, 10929		reports..... 12431, 14225	
guide for assembling..... 11840		Civil War Centennial Commission:	
Federal positions and salaries,		appropriations, 1960—	
legislative control, report..... 306		hearings..... 5911, 8883	
handbook of occupational groups,		law..... 11961	
etc..... 2401, 10930		reports..... 5876, 8713, 8844	
handbook X-118..... 2398, 10927		100 years after, newsletter..... 2405, 10934	
job opportunities		Civil War Centennial Medal, manu-	
local and regional examinations..... 1495,		facture and sale, authorize,	
4387, 7242, 9739, 13890, 15538,		report..... 6006	
17298		Civil works, see Public works.	
persons entitled to 10 point veter-		Civilian aircraft, see Aircraft.	
an preference..... 3227, 9738		Civilian aviation personnel, see Air-	
position classification—		men.	
explanation..... 4117		Civilian components of Armed	
principles and operation..... 7236		Forces, see Reserve compo-	
standards..... 2404, 10933		nents of Armed Forces.	
publications describing aspects of		Civilian defense:	
working for Uncle Sam..... 8181		antiaircraft, protecting populace	
qualification standards..... 2398, 10927		from modern means of attack,	
thinking about your first job? re-		selections from USSR book..... 17648	
member Uncle Sam..... 3229		atomic attack, survival measures	
veterans preference, job opportuni-		and reduction of casualties,	
ties..... 3227, 9738		hearings, excerpt..... 13804	
working for U.S.A., applying for		basic civil defense, instructors'	
jobs, etc..... 4388		guide..... 11828	
see also Civil service pensions—		capability must come from Gov-	
Government officials and em-		ernment, industries, etc., and	
ployees.		people (address)..... 11825	
Civil Service Commission:		civil defense against atomic, chem-	
appropriations, 1960, hearings..... 5914		ical, and bacteriological weap-	
interagency training programs—		ons, USSR study..... 7956	
fall 1959..... 13889		civil defense technical bulletin	
spring 1959..... 3228		TB series..... 1482-83, 11827	
offices..... 13885		civil effects exercise, test, opera-	
pamphlets..... 260,		tions..... 4312	
1497, 3229-30, 4388-89, 7243,		continuity of State and local gov-	
8481-83, 15534.		ernment..... 1484	
report, 1958—		District of Columbia activities, in-	
departmental edition..... 5736		vestigation, hearing..... 10043	
document edition..... 5798		emergencies, medical records for	
		handling casualties, technical	
		manual..... 8470	

# INDEX, 1959

	Entry		Entry
Civilian defense—Continued		Claims :	
emergency hospitals, procedures for training and handling.....	11827	against U.S., increase limit for administrative settlement—	
emergency operations, instructor's guide.....	7235	law.....	14083
fire defense policy (address).....	15507	reports.....	7393, 14518
guide for action in Washington warning area.....	17294	bankruptcy.....	
home food storage program for survival.....	246	creditors meetings, report.....	9883
information bulletins.....	2392, 10921	eliminate requirement of oath for proof, report.....	9882
local and State responsibilities (address).....	8467	Customs Bureau employees, report.....	16074
mobilization, legal authorities.....	15509	damages to property, etc.—explosion of munitions truck....	5826, 11941, 12362
motion pictures, list.....	13873	military personnel, authority to settle, report.....	5885
National Civil Defense Day—		noncombat activities of Coast Guard, settlement, amend U.S. Code—	
newspaper kit.....	247	law.....	14074
radio and TV kit.....	248	reports.....	5834, 14516
speakers kit.....	249	proposed appropriations to pay.....	4468, 9808, 15988, 15994
national plan—		foreign, damage to property, etc., extend statute of limitations, report.....	7395
authorities for civil defense and defense mobilization.....	15509	in favor of United States, compromise, rules and regulations.....	2166
disaster services.....	4370	insurance companies, settlement, agreement with Iceland, 1956, implement—	
individual action.....	4367	law.....	14036
national shelter plan.....	4369	reports.....	12253, 12484
organization.....	13875	international claims settlement act—	
planning basis.....	13874	amend, hearing.....	10039
preparations for continuity of Government.....	4368	excerpts, Czechoslovakia.....	449
research and development.....	13877	maneuvers at Laur training area, agreement with Philippines.....	8240
role of the military.....	13876	refund of income tax overpayment resulting from renegotiation, extend time for filing claims—	
what you should know.....	3199	law.....	15645
national, regional, State officials, etc., directory.....	5721	reports.....	4583, 14448, 15867
change.....	13872	settlement under Austrian State treaty, agreement with, Austria.....	17102
national plan for survival after enemy attack (address).....	9733	Texas City explosions, compensating, amend act—	
news features.....	10922	law.....	15745
news releases.....	2393, 10923	reports.....	7382, 16148
newsletters.....	2394, 10924	utilities, settlement, agreement with Korea.....	6955
non-military defenses, examination (address).....	15506	war claims act, amend, hearings.....	17360
over-all problem of civil defense and survival (address).....	17293	war damage claims against Germany and Japan, payment, report.....	7562
preparedness guidelines for emergency savings and loan operations, Federal home loan bank systems.....	12642	see also Unemployment insurance—also names of claimants.	
program (addresses).....	11823-824	Claims :	
progress, interim statistical report.....	10920	certified shippers.....	2894, 11436
radiological defense education handbook.....	3198	Gemma gemma, living and ancient population, Maine coast tidal flat.....	3495
radiological defense training in technical operations.....	17271	Clark County, Ohio, soil survey.....	5414
requirements for successful program (address).....	11826	Classification :	
rural localities, anti-aircraft, USSR.....	16543	and designation of contemporary blood substitutes, USSR study.....	1767
Soviet military translations.....	14813	Army personnel aptitude area scores, simplified regression patterns.....	9565
special promotion series bulletins—general.....	2396	decimal, additions, notes and decisions.....	11304
National Civil Defense Day.....	2397	Dewey decimal classification use in L.C., announcement.....	3830
study of food and beverages supplies in retail food stores.....	105	Federal catalog system, Defense Dept., history, organization, etc.....	16238
USSR, local anti-air defense.....	1862	Federal positions and salaries legislative control, report.....	306
water supply requirements in emergencies.....	1483	In a nutshell.....	7236
western Europe and Soviet Union, report.....	7387	Library of Congress—	
what we are doing in age of peril (address).....	7234	additions and changes, quarterly list.....	2768, 11308
see also National security.		class D, general and Old World history.....	6638
Civilian employees, see Armed Forces—Government officials and employees—Navy Department.			
Civilian personnel, see Air Force.			
Civilians, Air Force opportunities.....	4260		
see also Rehabilitation of the disabled.			
Clague, Ewan, nomination, hearing...	12563		

	Entry		Entry
Classification—Continued		Clear Creek County, Colo., Chicago	
Library of Congress—Continued		Creek area, geology and ore de-	
class H, social sciences.....	9326	posits.....	9121
class S, agriculture, etc.....	8016	Clearinghouse for Research in Child	
class Z, bibliography and li-		Life, studies in progress.....	8466
brary science.....	14976	Clebsch-Gordan coefficients, <i>see</i> Coef-	
outline.....	5181	ficients.	
occupations, current practices in		Clemson Agricultural College of	
major Government agencies.....	9642	South Carolina:	
officer personnel, Air Force manual		mineral rights conveyance, report.....	12195
change.....	1332	reserved mineral interests of U.S.,	
personnel, Navy enlisted classifica-		in certain lands, permit sale—	
tion codes, manual.....	15123	law.....	14009
positions.....		report.....	12443
description system for project		Clergy:	
square peg.....	3129	deeds of Holy Fathers, USSR.....	14905
explanation.....	4117	prohibit examination in D.C. courts	
Federal, reduce paperwork,		concerning information ob-	
guide.....	13892	tained in professional capacity,	
<i>see also</i> Civil service—Govern-		reports.....	12146
ment officials and employees—		social security coverage.....	2095
also names of substances, ob-		Clerical workers, <i>see</i> Clerks.	
jects, etc., classified.		Clerks:	
Classification bulletins, Patent Office,		examination announcement.....	15523
5369, 6886-87, 8166,	2099,	salaries in New York City since	
13538-539, 17010-11.	9448,	1948.....	8006
Classification tests, <i>see</i> Aptitude		<i>see also</i> Accounting clerks—Law	
tests.		clerks—also names of depart-	
Classified matter, <i>see</i> Confidential ma-		ments, etc., where employed.	
terial.		Cleveland, Harlan, statement.....	6056
Clay:		Cleveland, Ohio:	
ball, domestic, production, etc.,		electric facilities of area, map.....	16336
1958.....	13355	lamb promotional campaign, re-	
California bentonitic, evaluation for		sults.....	3065
use in oil-well drilling muds.		Climate:	
construction products, facts for in-		climatic conditions in upper	
dustry.....	2371, 9712,	reaches of Hel-lung Chiang	
domestic production for 1958, pre-	10902	and Hu-lun-pel-erh region.....	12882
liminary report.....	3860	climatography—	
effect on permeability in petroleum-		Alabama.....	7000
reservoir rocks, Tejon-Grape-		Alaska.....	17159
vine area, Kern County, Calif.	5203	Arizona.....	17154
fire, production, etc., 1958.....	16711	Arkansas.....	9545
mineral yearbook chapter.....	16687	Florida.....	8270
nonrefractory, Mines Bureau re-		Georgia.....	10634
search program.....	15015	Illinois.....	17155
production, etc., 1958.....	15015	Indiana.....	17156
products—		Iowa.....	10635
manufacturing establishments,		Kentucky.....	17157
labor turnover rates per 100		Maine.....	17889
employees.....	8000	Michigan.....	17158
manufacturing plants, location		North Dakota.....	17890
by county and employment		climatography of United States.....	9545
size.....	7221	climates of States.....	7000,
water vapor adsorption measure-		8270, 10634-635, 17154-159,	
ments for water sensitivity..	941	17889-890.	
<i>see also</i> Kaolin.		climatic summary of United	
Clay County, Nebr., geology and		States, supplement for 1931-	
ground-water resources.....	9126	52.....	1230, 8269, 17152-153
Clay, Henry, portrait unveiling, pro-		New York City and nearby areas,	
ceedings.....	5942	guide.....	4122
Clayton act, <i>see</i> Monopolies.		climatological data—	
Clean corn will pay dividends.....	9056	by States, etc.....	2993, 11546
Cleaning:		national summary.....	2994, 11547
cattle pens on terminal stockyards,		climatological publications, history-	4123
methods and equipment.....	17172	cold, thermoregulatory shifts in hu-	
corrosion resisting steels.....	4000	man organism and morbidity in	
equipment and supplies, SRRL cot-		connection with chilling fac-	
ton opener-cleaner.....	17189	tor.....	620
Government buildings, contracts		extremes for military equipment,	
with private concerns, report.	6009	military standard.....	10063
plastic equipment used in handling		floods and droughts in Yangtze and	
sap.....	4156	Hwai River valleys.....	13047
Cleaning compounds:		local climatological data, Washing-	
alkaline cleaner of conditioning		ton, D.C.....	2987, 5463, 11540
treatment for cooling systems,		supplements.....	2988, 11540
test methods for procurement.	13530	marine atlas, south Atlantic Ocean.	3004
chemical, Federal supply schedule.	1630	monthly data for the world.....	2990, 11542
low surfactant content amphoteric		supplement, 1957.....	17892
cleaners.....	6879	native plants on upper Snake River	
non-abrasive synthetic detergent,		plains and their relation to cli-	
Federal Standard.....	6169	matic factors.....	115
<i>see also</i> Soap.		radiation balance, connection with	
Cleaning equipment and supplies, Fed-		total balance, USSR studies.....	1945
eral supply schedule.....	418		



# INDEX, 1959

	Entry		Entry
Climate—Continued		Clothing—Continued	
Rumania, sketch of local map.....	5021	prices and price indexes, 1957.....	891
St. Lawrence Seaway and Great Lakes.....	7003	survey, facts for industry, 1958.....	15471
summary, 1931-52.....		women's.....	
Indiana.....	8269	facts for industry.....	2371, 10902
Oklahoma.....	17152	importance of fabric characteristics in selection.....	11632
Puerto Rico.....	17153	see also names of types of clothing.	
Virgin Islands.....	17153	Clothing lockers, see Lockers.	
upper-air climatology of United States—		Clouds:	
heights and temperatures, extremes and standard deviations.....	1232	distinguishing tornadoes from other cloud forms, handbook.....	5462
vector winds shear.....	7002	drops, hydrodynamic interaction, effect upon their falling speed, USSR study.....	3698
see also Weather.		ice particles formation, comparison of various equations for freezing of supercooled aqueous aerosols.....	7920
Climatic atlases, see Atlases.		icing, statistical data measured over U.S., North Atlantic, Pacific, and Arctic Oceans during routine aircraft operations.....	3925
Climatography, see Climate.		modification and formation, experiments using carbon black.....	2090
Climatology, see Climate.		Clover, see Sweetclover.	
Clinical Center, National Institutes of Health:		Clover mite, control around home.....	1310
nursing.....	17774	Clubs, see 4-H clubs—Service clubs.	
studies and patient referral procedures.....	1104	Cluj, Rumania, general information, description, etc.....	13243
Clinical electroencephalography, US-SR.....	3793, 3806	Cnemidophorus perplexus, see Lizards.	
Clinical Medicine Department, Academy of Medical Sciences, US-SR, activities, 1958.....	14911	Coagulation, acoustic precipitation of aerosols and its technical application, USSR study.....	3794
Clinical picture of chronic effect of electromagnetic microwaves, USSR studies.....	3724	see also Blood—Hemolymph.	
Clinico-anatomical conferences of Moscow, City Scientific Research Institute Imeni Sklifosovskiy, USSR.....	6607	Coal:	
Clinics:		agglomeration in low-pressure hydrogenation in fluidized bed, studies.....	9335
Communist China, survey of combined-practice clinics using Chinese native and western methods.....	9212	Alaska—	
polyclinics, USSR—		Beluga River coalfield, reconnaissance.....	2012
organization of doctors' office hours.....	12974	mining leases, increase acreage limitation—	
statistical data.....	16607	hearing.....	12541
see also Dental clinics.		law.....	15628
Clipping as method of harvesting guayule for rubber.....	1321	reports.....	12212, 12487, 14309
Clocks and watches:		analysis, tipple and delivered samples, 1958.....	15036
clock problem in relativity, theories recorded in literature, bibliography.....	9434	anthracite—	
watch movements, Tariff Commission report.....	13642	Pennsylvania—	
Clostridium botulinum, see Botulism.		distribution, Apr. 1, 1957—	
Closures for glass containers, and crowns, facts for industry.....	2371, 10902	Mar. 31, 1958.....	934
Cloth, see Textiles—also names of textiles.		minerals yearbook chapter.....	17674
Clothing:		production, etc., 1958.....	10446
Air Force crews, effect of dry and wet clothing on body cooling at low air temperatures.....	7123	production, monthly preliminary estimate.....	2829, 11371
and individual equipment, Federal supply schedules.....	4837, 9027-28	production, weekly reports.....	2839, 11381
children, use of cotton and other fibers, mothers preferences.....	3019	ash from powerplants, determination of germanium.....	5185
facts for industry, 1958.....	7198	bituminous and lignite—	
family, home sewing practices and problems.....	14622	distribution, 1958.....	5189
homemade, simplified timesaving sewing methods.....	5534	minerals yearbook chapter.....	3839
manufacturing, labor turnover rates per 100 employees.....	7983	carbonizing properties—	
manufacturing plants, location by county and employment size.....	7218	Allegheny County, Pa.....	6668
men's and boys' wear industry, outlook for 1959 and review of 1958.....	1441	McDowell County, W. Va.....	2014
men's apparel, facts for industry.....	2371, 10902	chemicals—	
needle industry of U.S., men's cotton garments, data for use in Latin America, etc.....	12786	minerals yearbook chapter.....	16688
		monthly reports.....	2799, 11343
		production, etc., 1958.....	10447
		Czechoslovak, coking qualities, investigation.....	613
		dry distillation utilization in China.....	6347
		expansion, use of sole-heated oven for studying.....	6674
		foreign trade reports.....	2376, 10907
		gasification, nuclear reactor system indirect-cycle to furnish process heat, engineering and design concepts.....	13322
		geophysical work in Pechora basin, results.....	1802

# JANUARY-DECEMBER

	Entry		Entry
Coal—Continued		Coal mines and mining—Continued	
Hernshaw, from Boone County, W. Va., carbonization properties and petrographic composition	6666	freighting facilities at mines compared with other industrial plants	16700
industrial coking, duplicability studies of BM-AGA test method and correlation	8050	hydraulic method of mining and transporting coal, literature survey	13316
industry development in Chinese People's Republic	560	injuries, 1953-54, analysis of safety factors, etc.	919
industry in China, translations and extracts	9173	injuries and employment, monthly reports	2796, 11340
international trade, monthly inventory	2783, 11327	Lin-Hsi Coal Mine combine crew establishes new world record for daily cutting and loading operations, China	3643
Kenai coal field resources, Homer district, Alaska	17486	Mines Bureau research and technologic work	13318-319
liquifaction, Fischer-Tropsch synthesis in fluidized-catalyst reactor with nitrided, fused-iron catalyst	6669	research and development program—	
Matanuska Valley, subsurface exploration, results	3598	hearing	12543
microscopical character	509	reports	8634, 8697, 12460, 15839
mineral matter determination, acid-extraction method	8052	safety precautions of multiple short-delay blasting	8034
Mines Bureau research and technologic work	13318-319	Soviet Russia—	
oil produced from, Mines Bureau synthetic liquid fuels program, 1944-55	16727	hydraulic mining equipment	553
Poland, development prospects for output and sale of pitcoal, 1960-75	1815	underground transport techniques development	553
preparation characteristics—		USSR industry, growth, development, etc.	6647
Allegheny County, Pa.	13372	see also Coal—Mine accidents—	
Greene County, Pa.	3873	Mine explosions—Mine fires,	
Washington County, Pa.	9355	Coal Research and Development Commission:	
preparation, radiant heat to reduce filter-cake moisture	8053	create—	
production and conservation, stimulate through research and development—		hearing	12543
hearing	12543	reports	8634, 8697, 12460, 15839
reports	8634, 8697, 12460, 15839	Coal tar, imports of products, 1958	10612
production in China	6355	see also Creosote.	
products—		Coast and Geodetic Survey:	
labor turnover rates per 100 employees	7998	magnetograms MHV series	3236-42, 5753, 9741, 17301-302
manufacturing plants, location by county and employment size	7220	miscellaneous nominations, hearings	333
reports, weekly	2797, 11341	offshore activities, remove geographical limitations, report	14503
resources—		personnel, dependents—	
Centralla-Chehalls district	509	medical care, annual report	11716
Colorado	12762	transportation allowances of escorts—	
Matanuska coal field, Little Sitna district, Alaska	3598	law	14015
Tiptop quadrangle, Ky.	507	reports	4599, 12479
waste, low-value, production, etc., Poland	682	publication notice PN (series)	10941
Coal mine fatalities, see Mine accidents.		publications	4393, 7248, 8487, 11849, 850
Coal-Mine Inspection Division, report, 1952-58	10428	releases, CGS series	2410, 10942
Coal Mine Safety Commission:		simplify administration relative to rates of pay for certain duties, report	14498
establish—		special publications	3244, 5754
hearings	12562	survey problems, radio telemetry, application	8488
report	16177	technical bulletins	8488, 17303
Coal mines and mining:		Coast Guard:	
bituminous, cementation of roof strata by injection of resins	3875	claims incident to noncombat activities, settlement, amend U.S. Code—	
Communist China—		law	14074
developments, 1958	14825	reports	5834, 14516
goals, 1959	16574	Coast Guard reservist	2412, 10943
industry, information	4989	cutters for icebreaking in Arctic and Antarctic regions, construct and equip—	
1958 records and 1959 goals	12830	hearings	15953
techniques and production, translations and extracts	13172	report	15844
Federal coal-mine safety act—		directives, publications, and reports index	4400, 17304
administration, 1952-58	10428	electric engineering regulations	3245
amend to remove exemption for mines employing 14 or less—		housing facility at Yorktown, Va., transfer from Navy Dept., report	12171
hearings	12562	lighthouse keepers, etc., increase compensation—	
report	16177	law	15674
		reports	12167, 14527

# INDEX, 1959

	Entry
Coast Guard—Continued	
Lighthouse Service, former employees, retired pay, increase—	
law	15725
reports	12168, 12248, 16171
miscellaneous nominations, hearings—	333
prescribe regulations governing life saving and other safety equipment on board vessels—	
law	15624
reports	12478, 14295
publications, price list—	5379
register—	17306
sell supplies and furnish services to certain vessels—	
law	14014
reports	9981, 12166
utilities, sell to purchasers in immediate vicinity—	
law	14011
reports	8840, 12165
Yorktown, Va., housing facility, operate—	
law	14007
report	12451
Coast Guard Auxiliary:	
Ahoy skipper, description of activities—	1500
operation member qualification guide—	7251
Coast Guard Reserve, register of officers—	4407
Coast Pilots:	
United States coast pilot—	13898
supplements—	4394-97, 5755-57
Coastal warning facilities charts:	
Canadian border to Eureka, Calif., 1959—	2174, 15238
Cape Hatteras to Brunswick, Ga., 1959—	15239
eastern Florida—	15240
Eastport, Maine to Montauk Point, N.Y.—	7001
Eureka to Point Conception, Calif., 1959—	15241
Manasquan, N.J. to Cape Hatteras and Chesapeake Bay—	5460
Montauk Point, N.Y. to Manasquan, N.J.—	5461
Morgan City, La. to Apalachicola, Fla.—	2175, 15242
Morgan City, La., to Brownsville, Tex., 1959—	15243
Point Conception, Calif., to Mexican border, 1959—	15244
Puerto Rico and Virgin Islands, 1959—	9546
Coasts:	
nautical charts, index, national atlas sheet—	11855
Puerto Rico, shoreline features and quaternary shoreline changes—	17492
United States surf statistics—	8968
Coating and Chemical Laboratory, reports—	400, 5365, 6879, 10552, 13530-531
Coating materials:	
abrasive grain on coated abrasive products, grading, standard of trade—	13818
ceramic-organic, electrical insulation for wire—	8373
fire-retardant, control of wood combustion—	6252
inorganic, electrical insulating, on wire—	4277
organic, space vehicles, degradation of polymers by ultraviolet irradiation—	6858
paints, water emulsion, analysis—	13531
protective coatings of heat resistant alloys, USSR studies—	1928
protective coating specifications index—	15146

	Entry
Coating materials—Continued	
ultraviolet and near infrared absorptive materials and techniques for their application—	15367
vinyl-lacquer for interior of military steel pipeline tubing—	4780
see also Ceramics—Litharge—Plastics.	
Coatings, fire retardant, for forest fires, tests—	473
Coats, men's and boys', manufacturing industry, wage structure—	6629
Coaxial cables, see Electric cables.	
Cobalt:	
catalyst for Fischer-Tropsch synthesis, preparation, etc.—	9334
contract obligations of U.S. Govt., investigation, hearings—	12291
extractive metallurgy, 1900-28, bibliography—	5188
minerals yearbook chapter—	10426
reports, monthly—	2798, 11342
Cobalt isotopes:	
fluoroscopic image intensifier system feasibility report—	1389
from cobalt-60 production reactor, unit cost—	177
Coca, regulatory taxes—	17719
Cocke County, Tenn., forest inventory statistics—	8258
Cocoa, Ghana crop spurs economy—	16398
Cocoa beans, see Cacao.	
Cocoon oil, disposal from national stockpile, report—	12184
Code of Federal regulations—	3469-73, 4820-23, 6135-59, 7712-26, 8990
9005, 10105, 14636.	
index, 1958 supplement—	10105
see also for titles, chapters, etc., of the code printed separately, subject involved.	
Codes, see Codes of law—also headings beginning Code—also names of departments, etc., issuing codes—also subjects.	
Codes of law:	
District of Columbia—	
amend—	
hearings—	9906
laws—	11985, 12016
reports—	5892, 7409, 10013, 10015
1951 edition, supplement—	7472
United States—	
compromise of claims—	2166
1958 edition—	8506, 9753-54, 11876, 13909, 15557, 17311
revision and codification of statutes of U.S., study, expenses, report—	3375A
title 1, amend—	
hearing—	8740
reports—	8684, 9836
views—	8684
title 10, amend—	
hearings—	4638, 4643-44, 5920, 9899, 12275, 12523, 12527, 16192.
laws—	12018, 12020, 14004, 14011, 14015, 14029, 14074
reports—	4584, 4599, 4601, 4621, 5834, 5855, 5885, 7395, 8652, 8657-58, 8840, 9856, 12136, 12165, 12179, 12201, 12467, 12469-470, 12472, 12480, 14516, 16123.
title 11, amend—	
hearings—	335
laws—	7313, 15658
reports—	4622, 7543, 9882-84, 14515, 15835, 15892
title 14, amend—	
laws—	14014, 15674
reports—	9981, 12166-167, 12179, 12201, 14527

# JANUARY-DECEMBER

Codes of law—Continued	Entry	Entry
United States—Continued		
title 15, amend, hearings.....	14342A	
title 17, amend, hearings.....	14345	
title 18, amend—		
hearings.....	334, 8903, 12299, 17335	
hearings, errata.....	16212	
laws.....	14092, 15618, 15631, 15656	
reports.....	4553,	
4556-57, 5843, 5990, 7413, 7418,		
8668, 8692, 8852, 8867, 9882,		
12135, 12265, 14231, 14285-286,		
15843, 15870, 16078, 16126,		
16162.		
views.....	7418, 8692	
title 22, amend, hearings.....	14337, 14560	
title 23, amend—		
hearing.....	16225	
law.....	8520	
report.....	14543	
title 28, amend—		
hearings.....	9916, 14346	
laws.....	14073,	
14083, 15647, 15677, 15685		
reports.....	7393,	
7412, 8807, 9841, 9853, 12115,		
12134, 12148, 12173, 14517-518,		
14529, 15853, 16071, 16153,		
16180.		
title 28, waiver of sec. 142, re-		
port.....	15805	
title 32 amend, hearings.....	12275	
title 35, amend—		
law.....	15734	
reports.....	12426, 14315, 16151	
title 38, amend—		
hearings.....	8760, 10050, 12319	
laws.....	11990,	
11996, 12090, 12093, 12023,		
14006, 14042-43, 14050, 14065,		
14084, 15614.		
reports.....	8673-75,	
8677-80, 8682, 9831, 12213-214,		
12219, 12417-419, 12423, 12437,		
12516-517, 14449, 14452, 14511		
title 38, text, print additional		
copies, report.....	4567	
title 46, amend—		
hearings.....	314, 12552	
laws.....	15633, 15692, 15728	
reports.....	12256, 12393, 14213,	
14301, 14505, 15837, 16172		
see also subjects.		
Codification guide, Federal register.	11093	
Coding operations on EV 80-3 elec-		
tronic computer, USSR.....	573	
Coefficients:		
attenuation, X-ray, 10 kev to 100		
Mev.....	17768	
Clebsch-Gordan, tables.....	3162	
correlation, notes.....	11673	
discharge, snow, high water, and		
loss of thaw water in Euro-		
pean territory of USSR.....	1885	
mass transformation on horizontal		
perforated plates at various		
gas speeds, USSR study.....	16597	
osculatory interpolation, tables.....	8095	
wave drag, for delta wing with 2		
airfoil sections.....	16870	
Coeur d'Alene Indians:		
per capita distribution of tribal		
funds.....	11982	
law.....	8833, 12122	
reports.....	12122	
use of funds arising from judg-		
ment, report.....	12736	
Coeur d'Alene National Forest dwarf		
mistletoe survey.....	12736	
Coffee:		
Armed Forces, military develop-		
ment and conversion to in-		
dustry supply.....	5394	
foreign agriculture circulars.....	2643, 11182	
intensive culture, guide.....	17207	
Coin-operated machines, see Juke-		
boxes—Slot machines.		
Coins, domestic, manufactured by		
U.S. mints.....	16739	
Coke:		
coke and chemistry (USSR period-		
ical), abstracts.....	10789	
coke-chemical industry of Chinese		
People's Republic.....	12857	
coking operations in China.....	6355	
industry—		
injuries, analysis of safety fac-		
tors, etc.....	921	
injury experience.....	13310, 16695	
minerals yearbook chapter.....	16688	
oven and beehive, distribution,		
1958.....	15013	
plants in United States, Dec. 31,		
1957, statistics.....	920	
Poland, development plan on back-		
ground of general power econ-		
omy.....	685	
production, etc., 1958.....	10447	
reports, monthly.....	2799, 11343	
USSR—		
chemical plants, corrosion of		
steel in apparatus.....	805	
coke-chemical industry, construc-		
tion of new installations.....	803	
large-coke-chemical plants, con-		
struction.....	804	
wet-and dry-quenched properties.....	13365	
see also Coal.		
Coke ovens:		
beehive and slot type, in United		
States Dec. 31, 1957, statistics.....	920	
sole heated, use for coal expansion		
and coke formation studies.....	6674	
Tuscaloosa, carbonizing tests on		
wet-and dry-quenched cokes.....	13365	
Coking of JP-4 fuels in electrically		
heated metal tubes.....	1011	
Cold (weather):		
cold injury, technical bulletin.....	167	
cyclones, displacement to cold re-		
gions, USSR research.....	1900	
frost investigations, cold room		
studies on action in soils.....	3427	
military maneuvers, prediction of		
enlisted performance.....	4	
Cold storage:		
apple storages, heat leakage		
through floors, etc., study.....	17198	
cranberries, refrigerated storage.....	7054	
frozen food locker cooperatives, ap-		
praisal.....	8981	
locker and freezer provisioners,		
uniform accounting system,		
guide.....	13723	
locker plants, frozen foods, etc.,		
United States, 1959.....	17392	
merchandising frozen food by		
locker and freezer provisioning		
plants.....	7055	
regional holdings, summary 1958.....	5504	
report (periodical).....	2194, 10651	
see also names or classes of com-		
modities stored.		
Cole, Grover J., relief.....	9954, 12105, 13928	
Coleman, Alan A., relief.....	9965, 12073, 13926	
Coleoptera, see Aphon—Beetles.		
Colglazier, Robert W., Jr., appoint-		
ment.....	4470	
Colitis, death rates by age, color,		
and sex, 1949-51.....	15106	
Collecting of accounts:		
agencies, misuse of names, emblems,		
and insignia to indicate Fed-		
eral agency, amend U.S.		
Code—		
law.....	15656	
reports.....	5990, 12265	



# INDEX, 1959

	Entry		Entry
Collecting of accounts—Continued		Colleges and universities—Con.	
licensing, etc., of agencies in		guide to prospective students from	
D.C.—		other countries.....	16260
law.....	15613	higher education (periodical)....	2494
reports.....	7410, 14467	higher education directory, 1957—	11025
small collection agency, starting		58, supplement.....	367
and managing problems.....	17845	higher education directory, 1958—	
Collection of laws of People's Repub-		59.....	368
lic of China (periodical), con-		supplement.....	4476
tents, July-Dec. 1958.....	17536	higher education directory, 1959—	
Collective bargaining:		60.....	16257
development.....	9294	higher education in eastern re-	
fringe benefits.....	9302	gions, USSR development.....	12905
health and insurance plans—		higher education, Russian vs Amer-	
accident and sickness benefits—		ican system (address).....	2015
departmental edition.....	14973	higher educational institution gen-	
document edition.....	14109	eral chemistry courses need re-	
changes, 1954-58.....	5175	developing, USSR study.....	5148
digest—		higher school system, USSR.....	16504,
departmental edition.....	5169	16507, 16531-532	
document edition.....	4430	home economics theses, titles.....	3076
lumber industry.....	9306	institutes of higher learning,	
pension plans, early and involun-		USSR, news—	
tary retirement—		aeronautical engineering, ab-	
departmental edition.....	16661	stracts.....	10842
document edition.....	15766	chemistry and chemistry tech-	
statistics (address).....	3823	nology, abstracts.....	10843
union contracts, paid holiday pro-		geodesy and aerial photography,	
visions—		abstracts.....	10845
departmental edition.....	7979	mathematics, abstracts.....	8440,
document edition.....	7328	physics, abstracts.....	10846
see also Industrial relations.		junior-year science and mathe-	
Collectivization and socialization of		matics students, fall 1958.....	10844
domestic labor.....	569	key audio-visual personnel, direc-	
College Magnetic Observatory, magne-		tory.....	3422
tograms and hourly values.....	3238-39	library statistics, 1956-57.....	8939
College students, see Students.		national defense education act of	
Colleges and universities:		1958—	
accreditation.....	3411	administration, hearings.....	5924, 9908
air transportation and management		guide.....	3420
courses, list.....	1595	national defense student loan pro-	
aviation flight or ground school		gram.....	7671
courses approved by FAA.....	12595	list of participants, 1958-59.....	6098
buildings, cost and financing, 1951-		North Korea, selected translations.....	13219
55.....	3418	personnel work in school and col-	
clearinghouse of studies on higher		lege preparation programs,	
education—		courses, etc., 1959-60, direc-	
reporter.....	10073	tory.....	16254
special reports.....	10074	planning and management data,	
correspondence courses offered mil-		1958-59.....	8935
itary personnel through		public 2-year colleges, organiza-	
USAFI.....	9648	tion and support patterns.....	17376
counseling and guidance training		receipts, expenditures, and prop-	
Institute program, analysis.....	370	erty 1955-56.....	17372
curriculum, correspondence courses		research relations between engi-	
offered through Armed Forces		neering, educational institu-	
Institute, DOD pamphlet.....	4281	tions and industrial organiza-	
Czechoslovakia, scientific research		tions.....	9491
work and their implementation		scientific reports of higher	
in higher schools, plans.....	3716	schools—	
degrees.....	12591	chemistry and chemical technol-	
bachelor's, social science require-		ogy (USSR periodical), ab-	
ments.....	3416	stracts.....	10864
earned, conferred, 1957-58.....	12592	metallurgy (USSR periodical),	
endowment investments, survey.....	12593	abstracts.....	10865
enrollment—		scientific research and develop-	
engineering, 1958.....	12591	ments—	
fall, 1958—		expenditures and manpower,	
analytic report.....	14593	1953-54 survey.....	6842
institutional data.....	365	higher chemical education,	
facilities survey.....	3418	USSR study.....	5146
faculties, personnel and instruc-		selective service qualification	
tional practices.....	1598, 16250	tests—	
financial needs of higher education		bulletin on information.....	5401
institutions in relation to		poster.....	5400
space research business (ad-		Slovak Academy of Sciences, activ-	
dress).....	15044	ities, etc.....	746, 748
financial statistics, summary, 1955-		State legislation relating to higher	
56.....	8937	education, survey.....	6093
foreign language laboratories.....	360	State universities, centennial of es-	
government publications covering		tablishment, commission to	
facts, list.....	5376	commemorate, reports.....	4608, 8826
graduate fellowship program.....	7670	students, scholarships and other	
graduates, women, job experiences.....	9554	financial aids.....	9315

# JANUARY-DECEMBER

	Entry
Colleges and universities—Con. summer institutes for science and mathematics teachers.....	2076
see also Dissertations (academic).....	
Junior colleges—Land-grant colleges—Maritime academies —also names of colleges and universities.....	
Collier Development Corp.: land exchange—	
law.....	15637
reports.....	15881, 16068
Colliers, N.Y., railroad accident.....	10206
Collins, Arthur E., relief.....	14160
Collisions, see Aircraft accidents.	
Colloids, infusion, use in therapy of radiation sickness, USSR study.....	3735
Colombia:	
Army, Air Force, and naval mis- sions, agreement.....	9517
establishing business.....	457
exports and imports, licensing and exchange controls.....	7800
food regulations.....	14697
passport visas, agreement.....	17104
preparing shipments to.....	9073
surplus agricultural commodities, agreements.....	4082-83, 9521
weather stations, agreement.....	10608
woods, pulping and papermaking experiments.....	486
Colombo plan for cooperative eco- nomic development in south and southeast Asia, 7th annual report of Consultative Com- mittee.....	4074
Colonial National Historical Park, archeological excavations.....	16964
Color:	
additives to food, drugs, and cos- metics, amend act, report.....	16073
offset reproduction, conditions for use and effectiveness of mask- ing method, USSR studies.....	5112
Color codes, use of color in coding displays.....	15360
Colorado:	
agricultural conservation hand- book.....	3005
beetle killed Engelmann spruce, rate of deterioration, progress report.....	12750
census of governments, 1957, State bulletin.....	11777
climatological data.....	2993, 11546
coal resources.....	12762
Confederated Bands of Ute In- dians, transfer funds to Ute Mountain Tribe—	
law.....	14086
reports.....	14249, 14457
electric rate book.....	10102
land identified as Lake Albert, dis- claim interest on part of U.S.—	
law.....	9781
reports.....	7384, 8856
medal commemorating 100th anni- versary of settlement—	
law.....	9785
reports.....	8666, 8829
mineral industry, minerals year- book chapter.....	3844
mountain meadow areas, forage production economics, progress report.....	15282
oil shale, kerogen content, hydro- genolysis study.....	6671
Pierre shale, radioactivity and uranium content.....	4922
plane coordinate intersection tables.....	8487
precipitation data, hourly.....	2998, 11549

	Entry
Colorado—Continued	
radioactive limonite, preliminary study.....	3595
southwestern, Black Mesa research program of range and water- shed problems.....	17478
weather stations, decadal census.....	17161
Colorado & Southern Ry., accidents, 4964, 6342, 7884	3635,
Colorado City, Lake, effect of addi- tion of heat from powerplant on thermal structure and evap- oration.....	6289
Colorado Plateau:	
stratigraphy of Triassic and asso- ciated formations.....	16457
uranium deposits—	
directional resistivity measure- ments.....	16463
Triassic rocks of region.....	12763
Colorado River and Valley:	
drainage basins, snow courses and soil moisture stations, list.....	5411
lower basin, reclamation projects, development, etc.....	5395
Navajo Indian project and San Juan-Chama project, con- struct—	
hearing.....	7623
report.....	6024
snow survey measurements, 1919- 58.....	6936
snow surveys and water supply forecasts of drainage basins.....	11485
surface water—	
quality of basin.....	7858
supply of basin.....	10194
upper basin, storage projects, etc.—	
general information.....	9476
report, 1958.....	3343
watershed conditions affecting wa- ter supply.....	2008
Colorado River basin, see Colorado River and Valley.	
Colorado River Reservation, leases of tribal and assigned lands, report.....	16119
Colorado Springs, Colo, see Air Force Academy, Colorado Springs.	
Colored terrain representation, Ger- man studies.....	3700
Colorimetric determination of traces of bromine in uranium com- pounds.....	183
Coloring matter in food:	
Citrus Red No. 2, temporary listing and certification under food, drug, and cosmetic act—	
law.....	5776
reports.....	4558, 4597, 4613, 4713
Columbia Basin project:	
act, amend—	
law.....	11953
reports.....	4611, 8820
general information.....	13567
lands, sale to Washington State College—	
law.....	11953
reports.....	4611, 8820
Potholes East Canal, design and construction, technical re- cord.....	4044
sale of farm units, announcement.....	9477
Columbia River and Valley:	
development of upper basin, hear- ings.....	6065
fishery resources, Interior Dept. to study, hearing.....	16209
lower, food of squawfish <i>Ptycho-</i> <i>cheilus oregonensis</i> .....	17426
monthly mean discharge at gaging stations and change of storage in lakes, etc.....	2660, 11199

# INDEX, 1959

	Entry		Entry
Columbia River and Valley—Con.		Combustion—Continued	
snow survey and water supply forecasts for basin.....	2941-42, 11490-491	liquid hydrogen with liquid oxygen as rocket propellant.....	13435
snow survey measurements, 1919-58.....	6936	low-pressure performance of tubular combustors differing in air-entry-hole geometry.....	3888
surface water—		pentaborane and pentaborane-3-methylpentane blends, spontaneous flammability.....	974
quality of lower basin.....	7858	performance of boron slurries and pentaborane blends in octene-1 for range of inlet temperatures and pressures.....	995
supply of basin.....	523	supplement.....	1008
supply of lower basin.....	12777	premixed phenomena, chemistry role.....	7078
supply of upper basin.....	10195	propellants, rocket engine experiments.....	3946
Columbia River Basin, see Columbia River and Valley.		properties of hydrogen, survey.....	8069
Columbia River Development Corporation, establish, hearings.....	10054	ram-jet afterburning as means of varying effective exhaust nozzle area, investigation.....	3885
Columbia-Southern Chemical Corp., relief.....	9829A, 14400	ramjet engines—	
Columbium:		performance in altitude wind tunnel at Mach numbers of 1.35, 1.50, and 1.75, free jet investigation.....	5223
in 1958, preliminary report.....	939	performance in supersonic wind tunnel at zero angle of attack, investigation.....	5224
industry, outlook for 1959 and review of 1958.....	1454	performance of high-energy fuels.....	5216
minerals yearbook chapter.....	14992	use of flame-immersed blades to improve limits and efficiency, rocket engines—	13392
Mines Bureau research intensification.....	13329	efficiency of hydrogen-liquid-oxygen propellant, effects of added ozone.....	10500
nature of hydrochloric acid solution of pentavalent niobium, USSR study.....	17626	ignition delay, effects of variations in combustion chamber configuration.....	1010
niobium-base alloys, development.....	17234	screech in afterburners—	
production, etc., 1958.....	10438	experimental determination of accompanying gas motion.....	976
Columbium-tantalum, mining and development research, promotion, hearings.....	3330	summary of preliminary investigations into characteristics.....	9361
Columns:		single tubular combustor performance at pressures up to 12 atmospheres.....	3889
creep collapse, theoretical analysis, variational theorem for creep, errata.....	16909	single turbojet combustor with 4 different fuel nozzles.....	998
see also Pulse columns.	947	spontaneous ignition limits of pentaborane.....	13401
Comanche Indians:		thrust augmentation using water-alcohol injection into combustion chambers of axial-flow turbojet engines.....	6696
use of judgment funds—		total-pressure loss in parallel-walled turbojet combustors.....	1013
law.....	15695	turbine engines—	
reports.....	14266, 16109	having channel walls for secondary-air entry.....	13399
Combat:		performance at high pressures and temperatures.....	13400
cold weather maneuvers, prediction of enlisted performance.....	4	performance, axial-slot air admission for controlling gas-temperature distributions.....	13389
fighter aptitude, identifying.....	1245	reaction mechanisms.....	5272
hand-to-hand, tactics, Army field manual.....	5617	screech and method of its control, investigation.....	13397
see also Military art and science.		turbojet engine thrust augmentation by combined compressor coolant injection and tail-pipe burning, investigation.....	962
Combined operations with and without afterburning for minimum fuel consumption in level flight.....	16921	various highly reactive fuels in 3.84 by 10-in. Mach 2 wind tunnel.....	6752
Combined Travel Board of Allied High Commission for Germany, security files, protocol.....	8247	wood and its control, theories.....	6252
Combustible liquids, see Liquids.		see also Flames.	
Combustion:		Combustion gases, see Gases.	
aerodynamic flameholders capabilities for afterburner, application, exploratory investigation.....	9367	Combustors:	
efficiency data on low-pressure performance of different diameter experimental combustor liners.....	6698	experimental tubular, differing in air-entry-hole geometry, low-pressure performance.....	3888
efficiency of boron-hydrocarbon slurry in 16-inch ram-jet burner.....	997		
external, in airstream below 2-dimensional supersonic wing at Mach 2.5 and 3.0, experimental investigation of aerodynamic effects.....	5263		
flame-holder and fuel systems configurations in short converging afterburner on turbojet engine, altitude investigations.....	2023		
fuel atomization, effects on performance of one-quarter sector of annular turbojet combustor.....	13391		
growth of disturbances in flame-generated shear region.....	2019		
immersed surfaces in combustion zone, effect on efficiency and stability of ramjet combustor.....	16775		
liquid fuels.....	15362		

# JANUARY-DECEMBER

Entry	Entry
Combustors—Continued	Comments on narcotic drugs..... 5212
gas motion accompanying screeching combustion in 6-inch simulated afterburner, experimental determination..... 976	Commerce:
liners of different diameter, low-pressure performance..... 6698	activities under trade development and assistance act of 1954, semiannual report..... 4450, 12049
modified tubular, use as high-temperature gas generators turbine cooling studies..... 999	agricultural trade development and assistance act of 1954, report..... 14436
prevaporizing, high-altitude performance..... 986	American business and international trade (address)..... 9746
ram-jet—	and foreign trade, code of Federal regulations..... 9004
evaluation of boron-hydrocarbon slurry..... 997	Chinese, leap forward in trade and finance in Sinkiang Autonomous Region, speech..... 12879
immersed surfaces in combustion zone, effect on efficiency and stability..... 16775	domestic trade in Communist China..... 703, 707, 6473
research, application of gas analysis..... 5272	east-west trade security controls, 1958..... 6948
single tubular, performance at pressures up to 12 atmospheres..... 3889	Europe's east-west trade in food..... 6206
single turbojet with 5 different fuel nozzles, transient and steady-state performance..... 908	exciting future of Pacific Rim (excerpts from remarks)..... 7256
tubular and annular, performance comparisons of Navy jet mix and JP-3 fuels from turbojet engines..... 963	foreign agricultural trade—
tubular, with external pilot chamber, performance..... 978	calendar year 1955..... 12697
turbojet—	digest..... 2638, 11177
channeled-wall annular, performance at high altitude supersonic flight conditions..... 13399	fiscal year 1957-58..... 6211
effect of fuel nozzle protrusion on transient and steady-state performance..... 13395	by countries..... 6212
effect of fuel properties on linear temperatures..... 5248	outlook charts, 1960..... 17435
performance, axial-slot air admission for controlling gas-temperature distributions..... 13389	policy, foreign agriculture circulars..... 2643, 11182
performance, effect of axially staged fuel introduction in primary zone..... 13391	statistical reports..... 2639, 10143, 11178
performance having reduced pressure losses and using propane fuel..... 2028	foreign commerce of U.S., quarterly summary..... 2366
performance having variable primary-air admission..... 13402	foreign commerce weekly..... 2645, 11184
performance with hydrogen peroxide injection for thrust augmentation..... 2039	foreign trade—
total-pressure loss..... 1013	FT reports..... 2356-62, 10888-889
tubular, analysis of total pressure loss and airflow distribution..... 8064	summary reports..... 2376
tubular, performance at high pressures and temperatures..... 13400	Hungarian, techniques..... 12877
tubular, with tapered liners, total-pressure loss and airflow distribution..... 3937	leaders wanted (address)..... 8498
turbojet-engine, ignition, effects of ignitor design and ignitor-gap environment..... 13393	practice, sources of information..... 12704
Command (military):	private investment abroad, protection, hearings..... 1658
military leadership, field manual..... 3135	requirements of food, drug and cosmetic act, guide..... 3515
Commemoration of 100th Anniversary of Enactment of Legislation for Land-Grant Colleges and State Universities and for Founding of Department of Agriculture Commission, establish, reports..... 4608, 8826	small business participation, hearings..... 14356
Commemorative medals, see Medals.	statistics notes..... 2363, 10894
Commemorative stamps, see Postage stamps.	summary reports..... 10907
Commentary guide for color slides timber resource review..... 481	U.S. balance sheet of world trade (address)..... 8500
Comments of reactor designers and industrial representatives on proposed expanded civilian nuclear power program..... 1510	USSR with other Socialist countries..... 17541
	waterborne, calendar year 1955..... 17285
	west coast group meeting, summary of proceedings..... 453
	foreign trade interests in Oregon, print as House document, report..... 15906
	foreign trade of USSR, organization and techniques, study guide..... 16561
	foreign trade policy (address)..... 4412
	international meetings, world list..... 11320
	international trade and European Common Market (address)..... 8493
	international trade in U.S. and Canada gaining new significance and importance (excerpts from remarks)..... 13901
	interstate—
	automobile marketing practices, hearing..... 331
	publications, price list..... 4019
	State taxation—
	commission to study, hearings..... 14559
	effect on small business, hearings..... 7647, 8910, 12571
	income derived—
	law..... 15639
	reports..... 15793, 15865, 16047
	views..... 16047
	interstate commerce act, amend—
	hearings..... 12551, 14342
	report..... 12400



# INDEX, 1959

	Entry
Commerce—Continued	
lake, American and Canadian canals at Sault Ste. Marie, Michigan and Ontario, statistics	388
Latin America, shipping, etc. (remarks)	14628
publications, price list	10561
realities of world trade (address)	7259
restrictive posture, trade space capsule	11872
role in developing economic progress and good will among peoples of earth (address)	4408
rural trade and finance control system, implementation, translations on Communist China's economic services	13184
Russian trade, trick or treat? (address)	7262
Soviet use of foreign trade as political weapon (address)	5766
total export and import trade of U.S.	471, 3545, 4892, 6231, 7802, 10159, 12720, 14709, 16426, 17451.
trade discrimination and currency convertibility (statement)	9509
trade of U.S. with western Europe, 1957, and comparisons with 1955-56	4895
trade winds, favorable or unfavorable? (address)	7267
trade with other countries, how we in American benefit (remarks)	5765
U.S. balance sheet of world trade (address)	7269
U.S.-U.S.S.R. trade relations, Department of State replies to documents	12537
United States aid to South American countries (address)	8499
United States trade opportunities, south of the border (address)	8495
United States trade with—	
Africa	12721, 17450
Canada, we like our customers (address)	13905
Latin America, 1956-58	14707, 17448
major world areas	3546, 9084, 16424
Near East, 1956-58	12722
Puerto Rico and U.S. territories and possessions, monthly reports	2362, 10893
southern, southeastern, and eastern Asia	12719, 17447
Soviet bloc	10161
western Europe	10160, 17452
waterborne—	
calendar year 1957	1607-9, 3431-32
calendar year, 1958	16271
foreign, 1958	15484
national summaries, 1957	3431-32
world peace through world trade (remarks)	7271
world trade challenges and opportunities (address)	15543
world trade in aluminum, 1954-57	5673
world trade information service—	
economic reports	454-460, 1649-56, 3529-33, 4872-77, 6220-27, 7769-97, 9067-72, 10146-150, 12705-708, 14685-693, 16419-420, 17442
operations reports	461-469, 1657-65, 3534-44, 4878-91, 6908, 7798-7801, 9073-82, 10151-158, 12709-718, 14694-706, 16421-423, 17443-445
statistical reports	470-472, 1666-68, 3545-48, 4892-95, 6229-33, 7802-3, 9083-86, 10159-162, 12719-722, 14707-709, 16424-426, 17446-452

	Entry
Commerce—Continued	
world trade review	470, 4893, 7803
world trade, sale of American products abroad must be increased by Yankee know-how salesmanship (address)	271
see also Exports—Tariff—also names of countries and places—also names or classes of articles of commerce.	
Commerce Department:	
addresses	2418
appropriations, 1960—	
hearings	7445, 8881
law	11975
proposed provisions	12339, 15992
reports	8641, 8868, 12131
Assistant Secretary, nomination of Lewis L. Strauss, hearings	8898
field office, selected publications	
available, list	9699
miscellaneous nominations, hearings	333
publications, catalog and index, 1958 supplement	4414
publications for use in marketing and distribution	11768
releases	2419, 10950
report, 1958	3248
role in negotiation of international aviation agreements (address)	15549
Secretary to prescribe rates of pay for certain functions of Coast and Geodetic Survey and Weather Bureau, report	14498
3d class bulk mail rates study, progress report (address)	13823
transfer certain functions to Labor Dept.—	
law	14081
reports	12464, 14296
Commercial aviation, see Air carriers.	
Commercial banks, see Banks and banking.	
Commercial Carriers, Inc., motor vehicles accident	7883
Commercial fisheries, see Fish and fisheries.	
Commercial Fisheries Bureau, report, 1958	9030
Commercial policy series	5417, 17852
Commercial practices, code of Federal regulations	7718
Commercial production of green-house tomatoes	1301
Commercial products:	
exports—	
foreign trade reports	2359-61, 10890-892
statistical classification—	
schedule B	3181, 4351
schedule S	1472
hot goods, written assurance of compliance under fair labor standards act, general statement	4120
identified merchandise, equalize rights in distribution—	
hearings	332, 7470
report	9837
views	9837
imports—	
foreign trade reports	2356-57, 10887-888
statistical classification—	
schedule A, changes	216
schedule T, changes	3190
leading commodities in U.S. foreign trade, 1958	14708
marketing new or improved products, theoretical aspects (paper)	5497

# JANUARY-DECEMBER

	Entry		Entry
Commercial products—Continued		Commissioned officers, <i>see</i> Coast	
miscellaneous, prices and price indexes, 1957	903	Guard Reserve—Marine	
new product development and sale, bibliography	8217	Corps—Navy—Reserve components of Armed Forces— <i>also</i> names of services to which officers belong	
prepackaged, checking manual for weights and measures officials	6603	Commissioners, <i>see</i> United States commissioners	
production, prices, markets (address)	9272	Commissions, regulatory, investigation, hearings	311, 1554, 3331, 5928, 9915, 15949A, 17334
products list circular, opportunities for small businesses	2937, 11481	<i>see also</i> names of commissions	
reducing stock shrinkage in small firms, control devices	8219	Committees, <i>see</i> Congressional committees— <i>also</i> names of committees	
selected classes, value of shipments	4349	Commodities, <i>see</i> Agricultural products—Commercial products—Exports	
USSR consumer goods industries, abstracts	5049, 6519, 9225	Commodity Credit Corporation:	
willful concealment of goods in D.C. stores, penalties, report	7408	Advisory Board, limitation of membership, opinion of Attorney General	6626
<i>see also</i> names of products		audit report, 1957	293
Commercial standards, <i>see</i> Standards and standardization		barter operations—	
Commercial treaties:		hearings	5903, 12273
trade agreements escape clause investigations—		minority report	14262
outcome or current status of application filed with Tariff Commission	5439	reports	14262, 14289, 15919
reports	4103, 8255-56, 9527, 10611, 13639, 17133, 17878	financial condition and operations	2422, 10953
trade agreements manual	13641	grain, use to prevent crop depredation by waterfowl, make authorization permanent—	
trade agreements program—		law	13997
operations, July 1956-June 1957	4102	reports	9872, 12442
operations, July 1957-June 1958	13637	operations, investigation, hearings	5925
operations, 3d annual report, transmittal message	9940	operations, 1953-June 30, 1958, graphic summary chart	274
<i>see also</i> General agreement on tariffs and trade		report, 1958	1505
Commissionarymen:		sale of feed grains to meet shortages in emergency areas—	
1 & C, Navy training courses	17797	law	15664
3 & 2, Navy training courses	1123	reports	14320, 14502
Commission for Commemoration of 100th Anniversary of Enactment of Legislation for Establishment of Land-Grant Colleges and State Universities and for Founding of Department of Agriculture, <i>see</i> Commemoration of 100th Anniversary of Enactment of Legislation for Establishment of Land-Grant Colleges and State Universities and for Founding of Department of Agriculture Commission		sell surplus cotton to domestic mills—	
Commission for Educational Exchange between United States and Spain, agreement	1203	hearings	17328
Commission on Country Life, <i>see</i> Country Life Commission		report	12439
Commission on Department of Science and Technology, <i>see</i> Science and Technology Department Commission		statutes, compilation	3048
Commission on International Rules of Judicial Procedure, <i>see</i> International Rules of Judicial Procedure Commission		storage operations, hearing	7441
Commission on Metropolitan Problems, <i>see</i> Metropolitan Problems Commission		surplus farm products, acquisition and disposal	3250
Commission on Metropolitan Problems and Urban Development, <i>see</i> Metropolitan Problems and Urban Development Commission		transactions, limitation, hearings	9894
Commission on State Taxation of Interstate Commerce, <i>see</i> State Taxation of Interstate Commerce Commission		Commodity Exchange Authority:	
		appropriations, 1960, Agriculture Dept., hearings	5909
		records, preliminary inventory	9391
		Commodity exchanges:	
		code of Federal regulations	7719
		commodity futures statistics, July 1957-June 1958	1322
		cotton and grain futures acts, compilation	1511
		Commodity-industry analyst, minerals, examination announcement	5723
		Commodity Stabilization Service:	
		appropriations, 1960, Agriculture Dept., hearings	5909
		legislation administered by, compilation	3048
		operating procedure, loan and purchase handbook for grains	9751
		purchase and sales reports	2435, 10968
		purchase reports	2436, 10969
		sales reports	2439, 10972
		Common carriers, <i>see</i> Motor carriers	
		Common market, <i>see</i> European Economic Community	
		Commonwealth Parliamentary Association, Canberra meeting, invitation to Congress to attend, reports	7572, 8842
		Communes:	
		Chien-su, history of development	9240
		China, plans for management of light industry	10228

# INDEX, 1959

	Entry
<b>Communes—Continued</b>	
Chinese—	
plans and data	6343
system of ownership	14889
wages, remuneration, and commodity distribution, articles	9156
diary of Shu Tung as member	17539
new stage of political power of communes, translations from Communist China's publications	14886
peoples—	
Chinese, questions and answers	9164
Communist China, reorganization process	17629
in China (German address)	6388
in China, progress toward communism	12895
rural, program of propaganda department of Hopeh provincial party committee on implementing semisupply and semiswage system, China	10230
Shantung agricultural communes, 1958 supplementary directives for distribution of work	9157
Red China, effect on United States, hearing	7636
role in production control, Shantung draft regulations	6387
Communicable Disease Center:	
releases	11441
training manual	10572
training program bulletins	15165-166
training programs	4029, 10571
Communicable diseases, see Contagion and contagious diseases.	
Communication (psychology):	
effective 2-way method of achieving team potential	13655
Communications:	
act of 1934, amend—	
hearings	9014, 12553, 17357
reports	14472, 14474-476, 16048, 16133, 16144
act of 1934, equal-time amendment—	
hearings	14343, 14569
law	14100
reports	12255, 12463, 14242, 142999
views	12255, 12463
Air Force manual	8357
Air Force message preparations instructions, manual	123
armor specialist, MOS proficiency test aid	3139
artillery, MOS proficiency test for specialist	11698
C-E publications and training, Air Force manual	8355
commercial services for Air Force, manuals	1338, 3103, 4220, 11669
disaster service, FCC rules and regulations	17404
electronics doctrine—	
basic concepts, missions and functions, Air Force manuals	3099-3100
C-E charts, symbols, etc., Air Force manual	15345
master index, Air Force manual	7095
planning and preparation of C-E plans, Air Force manual	3101
terminology listing, Air Force manual	15346
USAF, manuals	1338-40, 3099-3104, 4220-23, 7095, 8355-56, 11668-669, 15345-346
electronics policy, USAF, manual—	11668
equipment—	
facts for industry	2372, 9713
Federal supply schedule	9018

	Entry
<b>Communications—Continued</b>	
equipment—continued	
industry, outlook for 1959 and review of 1958	5668
manufacturing industry, midyear review and outlook, 1959	13824
excise taxes	9141
facilities at Cape Dyer, Baffin Island, agreement with Canada	9515
facilities for ballistic missile early warning system, agreement with Canada	15212
fixed aeronautical services, map—	15370
free services to official participants in International Radio Consultative Committee Assembly—	
law	5782
meeting	4726
reports	5849, 5856
herald of communications (USSR periodical), abstracts	8437, 10801
North Korea, articles	10219, 12828
operating industry, midyear review and outlook, 1959	13825
PACAF basic bibliographies	1355, 17227
Pakistan, establishment of communications unit, agreement	17112
plan for seismic sea wave warning systems	3235
Poland's investments, concrete step in development of economic research	836
Poland's ministry economic plan for 1958, objectives, etc.	846
publications, price list	2109
statistics, common carriers, 1957—	8985
use of satellites for world communication—	
hearings	8754
reports	7411, 9923
USSR system, budget and bank financing	7916
Volga hydroelectric power station, USSR, operation and development	9261
written, preparation of, Air Force manual	5567-68
see also Electronics—Radio communications—Telephone—Telephone.	
Communications coding clerks, cryptographic, examination announcement, discontinuance notice	5744
<b>Communism:</b>	
activity in industrial establishments holding defense contracts, investigation, hearings	8759
activity in mass communications, hearing	8900
acts, control in Communist empire, consultation by Un-American Activities Committee with Ivan P. Bahriany	12317
advancement as social system, role of science	12978
bourgeois reformist nature of rightist socialist ideology, USSR study	17621
building of USSR, program	12957
Caribbean threat to U.S., hearings	12557, 16210
challenge Khrushchev presents (address)	16643
challenge of Soviet power (address)	10592
China—	
articles from Hung Ch'i	5016
articles on world situation	4966
big leap forward in 1958 (address)	3663
leap forward in 1958, German newspaper article	6389

# JANUARY-DECEMBER

	Entry		Entry
<b>Communism—Continued</b>		<b>Communism—Continued</b>	
China—Continued		organizations, make Subversive Activities Control Board final orders applicable to successors, report.....	15878
program of propaganda department of Hsueh provincial party committee on implementing semisupply and semiwage system in rural communes.....	10230	organized, in United States, report, additional copies, report.....	7369
scientific, discussion of problems.....	12826	passport frauds, staff study.....	12556
Szechwan CCP directive on collective life, etc.....	10326	passports use and abuse, hearing.....	4748
transition from socialism, Mao lost a round.....	5010	persecution of churches in Red China and northern Korea, consultation by Un-American Activities Committee with Peter Chu Pong, and others.....	14284
yellow communism, history, special features, etc.....	10216	print additional copies, report.....	8756
Chinese—		political propaganda and use of U.S. mails, hearing.....	7635
articles from Che-haueh yen-chiu.....	16518	problems.....	2978, 11527
articles from Hsien-tai Fo-hsueh.....	12874	progress in USSR, role of science.....	5090
articles from Hung Ch'1.....	5016, 6354A, 9161, 9176, 9178, 9180, 9193, 9236, 10235, 12889, 14810, 17543	religious activity, controls, hearing.....	7634
articles from Min-Tsu Yen-Chieu.....	12888, 14804, 14890	revolution is task of masses.....	4998
communist espionage patterns—		scope of Soviet activity in U.S., hearings.....	6072
additional copies, report.....	7368	shifting balance of world forces, selection from statements, etc., of Nikita S. Khrushchev.....	15995
text.....	1557, 7334	Sian, China, major work done since 1957, etc.....	3677
Communist International, revival of organization, and its significance for United States, study.....	7641	socialist democracy and freedom of personality, USSR views.....	12834
communist lobbying activities in Nation's Capital, report.....	15971	Soviet communist propaganda, fact book 1957-58.....	10629
communists denaturalization and deportation cases, investigation, Pittsburgh, Pa., area, hearings.....	8758	statements by leaders, handbook.....	17087
conspiracy to discredit FBI and its director, articles documented by Edward J. Mowery from Newark, N.J. Star-Ledger.....	7497	strategy and tactics in U.S., Pittsburgh, Pa., area, hearings.....	8757
contradictions of communism, study, report.....	10048	supporters, denial of passports, hearings.....	14337, 14560
development from socialism and plans for future in USSR.....	12965	report.....	15897
development of world socialist system towards.....	17577	testimony of.....	
56 Informative Government publications, list.....	15157	Jencks, Clinton E.....	15976
Freedom Academy to develop knowledge of conspiracy, etc., hearings.....	14571	Johnson, Arnold.....	15975
funds for communist causes, hearings.....	16213	Tibet, chronology of events, 1949-59.....	14799
infiltration of industry and current techniques in Chicago, Ill., area, hearings.....	12316	training operations, hearings.....	15973
internal security act, etc., administration, investigation—		USSR, prospective plan for development of national economy.....	10362
expenses, report.....	16087	world, effectiveness of governmental organization and procedure in contest, investigation, authorization, report.....	8813
extension, report.....	3366	world strength of communist party organizations.....	8253
international—		Communist anti-American riots, staff study.....	16210
developments, selected translations.....	16506, 16517, 17557	Communist bloc nations, see Soviet bloc.	
myth of "Titoism" in Yugoslavia, consultation by Un-American Activities Committee with Alex N. Dragulich.....	322	Communist China, see China.	
Kremlin's espionage and terror organizations, testimony of Petr S. Deriabin.....	5936	Communist economic threat.....	6946
language manipulation potent weapon for world domination, consultation by Un-American Activities Committee with Stefan T. Possony.....	7488	Communist parcel operations, report.....	15972
legal subversion, role of communist lawyer—		Communist Party of China, role in development of local organs of State authority of People's Republic of China.....	5014
reports.....	3335, 4555	Communist Party of Indonesia, central committee plenary session, Politburo political report.....	6472
report, additional copies, reports.....	4626, 12175	Communist Party of Morocco, national liberation movement, principal tasks.....	1761
Marxism in China.....	13144	Communist Party of Soviet Union: general information.....	6435
misuse of U.S. passports, hearings.....	12318	history, program for course.....	559
		party unity, USSR study.....	7896
		seven-year plan, troops, important tasks.....	16629
		Soviet higher and local party organs.....	17550
		21st Congress.....	9266
		decisions relating to problems of morphology.....	16606
		our task, fulfillment of resolutions.....	13237



# INDEX, 1959

	Entry		Entry
Communist Party of Soviet Union—Continued		Competition—Continued	
21st Congress—Continued		requirements in armed services procurement procedures, hearings..	16192
pathological physiology tasks, plans .....	10378	Complex man (address) .....	10394
production of antibiotics, further development plans .....	14938	Complexions .....	
recommendations for expansion of geological science .....	6405	and their use, USSR study .....	17637
resolutions .....	10361	efficacy in causal treatment of acute X-91 intoxication .....	14943
resolutions, fulfillment .....	10347, 10366	Components and Techniques Laboratory, radiochemistry section, quarterly, progress report, July-Dec. 1957 .....	7073
resolutions relating to problems of nutrition hygiene .....	13249	Compounds, complex, distribution between 2 solvents, USSR study .....	14954
7 year aims .....	14934	see also names or classes of compounds, or purpose for which used.	
Soviet public health, plans .....	10373	Compressed air, piping design, engineering manual .....	8960
urgent tasks of medical science in light of decisions, USSR study .....	17652	Compressed gases, see Gases.	
Communist Party of United States: Southern California District, organizational, structure, objectives, and leadership—		Compressibility, effect on hovering performance of two 10-foot-diameter helicopter rotors tested in Langley full-scale tunnel .....	10489
hearings .....	7489	Compressible flow, see Flow.	
report .....	5890	Compression tests on circular cylinders stiffened longitudinally by closely spaced Z-section stringers .....	6757
report, additional copies, report .....	9869	Compressive strength of stainless-steel sandwiches at elevated temperatures .....	10503
Communist propaganda fact book, 1957-58 .....	10629	Compressors:	
Communities, see Cities and towns.		air bleed at outlet, effect on acceleration characteristics in turbojet engine .....	5228
Community development programs: Africa, summary of conferences in Libya .....	7874	axial flow—	
community development review .....	2684, 11224	altitude operational characteristics of prototype model turbojet engines J 47D RX 1-1 and RX 1-3 with integrated electronic control .....	961
Community facilities act of 1959, hearings .....	8725	blade rows, method for predicting off-design performance .....	15084
Community Facilities Administration:		equipped with inlet guide vanes operating in turbojet engine, characteristics .....	990
news releases .....	2440	investigation with 2 transonic inlet stages—	
public facility loan program, expand, hearings .....	8725	aerodynamic design .....	975
public works planning program, Oct. 1958 .....	4415	aerodynamic design modification and performance prediction .....	996
Community forests for rural people .....	9606	individual stage performance characteristics .....	982
Community health, see Health.		over-all performance, analysis .....	977, 994
Community health services, see Health.		over-all performance, rotating stall, and blade vibration at low and intermediate speeds .....	1001
Community project, youth fitness, what a community can do for fitness .....	8178	limitations imposed on one-spool ducted-fan-engine designs at flight Mach numbers 0, 0.6, 0.8 .....	16797
Community Relations Service, establish, hearings .....	12555	limitations imposed on one-spool turboprop-engine designs at flight Mach numbers of 0, 0.6, 0.8, analysis .....	1012
Como, Lake, lead-zinc deposits in area .....	16732	performance of rear-stage rotor blade row at 3 different blade setting angles .....	2044
Compacts (interstate), see Interstate agreements.		rotor-blade wakes and other flow phenomena examined with hot-wire anemometer .....	10472
Companies:		transonic, rotor with double-circular-arc airfoil blade sections, investigation .....	2031, 2035, 2037
acceptable as sureties on Federal bonds .....	9533	2-spool turbojet-engine performance, effect of design over-all compressor pressure ratio division .....	16783
small, research and development work, list .....	2130	blades—	
Comparative education, studies, bibliography .....	372	double circular arc, throat area determination for cascade .....	1000
Compasses:		systematic 2-dimensional cascade tests at low speeds .....	10465
aircraft magnetic, type J-2, operation and organizational maintenance, technical manual .....	11713		
deflection of needle .....	1617		
see also Gyrocompass.			
Compatibility, pentaborane with materials used for seals, gaskets, and construction .....	16778		
Compensation, see Employers' liability and workmen's compensation—Pensions—Salaries.			
Competition:			
D.C. Transit System and its competitors, insure fair and equal opportunity, hearing .....	14556		
equality of opportunity, amend Clayton act, hearings .....	12560		
factors influencing among flour mills in Pacific Slope States .....	11641		
flat-glass producers dual distribution methods and problems of independent producers, hearings .....	3398		

# JANUARY-DECEMBER

Compressors—Continued	Entry	Concepts—	Entry
bleed system for rim cooling turbine wheel of turbo-jet engine, evaluation	6699	mental health and consultation, their application in public health social work	5718
coolant injection on tail-pipe burner combustion process, effects, investigation	962	productivity and aims of national centers	1729
flow, effect of inlet baffles on rotating stall, etc., in turbojet engine	16785	psychology, USSR	14836
gas-turbine engine performance when heat from turbines is rejected ahead of, within, or behind main compressor	3899	Concessions, concessioners furnishing accommodations for public in areas administered by National Park Service	13488
impulse-type supersonic rotor, mean turning of 114°, performance	1067	Concho, Okla., Cheyenne and Arapaho subagency reservation, decrease size, report	8642
interstage air bleed, effect on acceleration characteristics in turbojet engine	5229	Concord, Calif., population, special census	1467
matching—		Concord-Lexington Battle Road, see Lexington-Concord Battle Road	
acceleration and deceleration of 2 hypothetical turbojet engines, operating trends	3896	Concrete—	
component performance determined analytically for range of cooling-air weight flows	13396	brick and block industries, work injuries	3825
piston, building, development, in USSR	1751	concrete and reinforced concrete (USSR periodical) abstracts	10790
rotors—		gravity prototype structures for civil works projects, instrumentation for measurement of structural behavior, engineering manual	4785
axial flow, design, performance and stall characteristics, investigation	2031	hardened, high-pressure test for determining air content	392
different chord length, comparison of performance	1019	hog wallow with surface drain	7065
transonic performance, theory and experiment	1002	horizontal construction joints, methods of preparing	10273
transonic—		molded cylinders and drilled cores, compressive strength, investigation	16275
aerodynamic design and performance	6719	precast reinforced installations, use in Pioneer and Cascade tunnels	918
magnitude of shock losses, analysis	13405	prefabricated and reinforced, vibro-beton factory in Sofia	608
transonic rotor, experimental investigation—		see also names of manufactured articles	
blade-element and over-all performance, etc	5240	Condemnation of property, insanitary buildings in D.C., amend act, report	5995
blade-element performance	5238	Condensation:	
design, over-all performance, etc	5237	base-catalyzed reaction with isocyanates	16991
turbojet, some Reynolds number phenomena	15054	heat transfer	15397
see also Air compressors.		reaction in absence of bases	17807
Comptroller General, see General Accounting Office.		Condensed milk, see Milk.	
Comptroller of Currency:		Condensers (electric), see Capacitors.	
additional deputy, appoint—		Condition of modern man (address)—	9277
hearing	16194	Conditioned inhibition in primates, USSR	5129
law	14089	Conditioning treatment for acid cleaned cooling system	10552
reports	12191, 12227, 14508	Conduct of life, Armed Forces, U.S. fighting man's code	15372
deputies, increase number, hearings	8726	Conduits:	
report, 1958—		flood-control, Enid Dam, Yocoma River, Miss., prototype hydraulic tests	12618
departmental edition	13906	Table Rock Dam, White River, Mo., hydraulic model investigation	12617
document edition	14113	Cones:	
surety bonds, raise requirements—		elliptic, alone and with wings at supersonic speeds	5220
hearing	16194	yawed, turbulent boundary layer on cone in supersonic stream	17767
law	14089	see also Conifers.	
reports	12191, 12227, 14508	Confectionery:	
Computation of singly scattered radiation from distant source when angular scattering function is known	17800	facts for industry	2371, 10902
Computations, see Numerical calculations.		summary, 1957	212
Computers:		sales and distribution, 1957	7170
helicopter weight and load	17882	Confederated Band of Ute Indians, see Ute Indians.	
photographic, mathematical, navigational, etc., catalog of technical reports, 1947-58	9677	Confederated Tribe of Siletz Indians in Oregon, see Siletz Indians.	
see also Analog computers—Electronic computers.		Confederated Tribes of Warm Springs Reservation of Oregon, see Warm Springs Reservation.	
Computing machines, see Calculating machines.			
Concentrated foods, see names or classes of foods.			

# INDEX, 1959

	Entry
Conference committees, reports.....	5888,
7421, 8687, 8695, 8706, 8710,	
8713, 8716, 9838, 9867, 9886,	
9891, 12116, 12129-131, 12149,	
12193, 12205, 12224, 12229,	
12238, 12250, 14243-244, 14259,	
14290A, 14298, 14301, 14306,	
14309, 14316-318, 15829, 15839,	
15863-867, 15916, 15918-919,	
15924-925, 15928-929, 15931,	
15990.	
Conferences, congresses, etc.:	
documents of international meet-	
ings, 1953, bibliography.....	14977
future international meetings,	
world list.....	11819-320
in conference, advice to the con-	
ference.....	12784
international—	
list.....	2953, 11500
participation of United States	
Government.....	9506
international organization and con-	
ference series.....	4074, 6949-51,
9506-7, 15198-200, 17093-95	
parliamentary conferences with	
Canada—	
report of Senate delegation.....	16197
U.S. House delegation to 2d meet-	
ing, report.....	12225
U.S. participation	
law.....	9774
reports.....	5854, 5897, 7556
parliamentary conferences with	
Mexico, U.S. participation, re-	
port.....	14251
recovery of enriched uranium scrap,	
held at New York, Sept. 23-	
24, 1958.....	11730
school and college personnel work	
1959-60, list.....	16254
scientific and technical meetings,	
list.....	2860
Trade Union Section, European	
Productivity Agency seminar.....	6662
union conventions, 1959.....	10407
see also names of conferences,	
etc.—also subjects of confer-	
ences.	
Confession (law):	
constitutional aspects when ob-	
tained from suspects during	
police detention prior to ar-	
raignment, hearings, errata.....	336
Confidence games, see Fraud.	
Confidential material:	
access of defense contractors, Sec-	
retary of Defense to prescribe	
standards, report.....	15877
safeguarding—	
Industrial security manual.....	3406,
4762, 16239	
Ordnance Corps manual.....	15145
Confinement facilities, see Disciph-	
nary barracks.	
Confiscated property, return to Amer-	
ican citizens, amend trading	
with the enemy act, report.....	7562
Conflict of interests, Federal em-	
ployees legislation, staff re-	
port.....	3332
Congenital malformations, see De-	
formities.	
Congo, sending gift packages to.....	16409
Congo Free State, see Belgian Congo.	
Congress of United States:	
code of Federal regulations.....	12655
congressional record—	
85th Cong., 2d sess., bound	
volumes.....	3254,
4416-18, 5769-72, 7277-81, 8504	
daily digest.....	8503
index.....	8505

	Entry
Congress of United States—Con.	
congressional record—Continued	
85th Cong., 2d sess., daily.....	2442
index.....	2443
86th Cong., 1st sess., daily.....	2442, 10974
index.....	10974
date of meeting, 86th Congress, 2d	
session, law.....	15670
directory—	
official edition, 86th Cong., 1st	
sess.....	4419
pocket edition, 86th Cong.....	3253
major legislative actions, 86th	
Cong.....	7321, 15758-759
Members retired, reemployment,	
amend civil service retirement	
act—	
hearing.....	12306
report.....	14230
power of the President to withhold	
information, memorandums of	
Attorney General.....	8902
reports to be made to Congress,	
list.....	3281
Republican review, 1st session,	
86th Congress.....	15998
women of 86th Congress (biograp-	
phies).....	9563
see also Congressional documents.	
Congressional committees:	
hearings, checklist through 67th	
Congress.....	13303
hearings, Jan. 3, 1935-Jan. 3,	
1959, index.....	11875
Congressional districts, map, Jan.	
7, 1959.....	4352
Congressional documents, numerical	
lists, etc., 85th Congress, 2d	
session.....	8183
Congressional list (series).....	3619
Congressional Medal of Honor, see	
Medal of Honor.	
Congressional Record, see Congress of	
United States.	
Congressional Representation Joint	
Committee, establish, hear-	
ings.....	12555
Congressional serial set.....	278-281,
1507-8, 3256-58, 4420, 5773-74,	
7282-83, 8507-10, 11877-889,	
15558, 17312.	
schedule of volumes, 85th Congress,	
2d session.....	8183
Confers:	
California cone crop, 1958.....	474
California cone crop, 1959.....	16445
conversion from poor hardwood	
stands by planting.....	7811
growth on old-field sites, compari-	
son with hardwoods.....	477
swamp, growth after partial cut-	
ting, study.....	7826
Connecticut:	
census of governments, 1957, State	
bulletin.....	11778
electric rate book.....	8994
mineral industry, minerals year-	
book chapter.....	15004
Connecticut River, shad, effect of	
New York-New Jersey pound-	
net catches on runs.....	3500
Connectors (electric):	
printed circuits, preparation of	
standards and test procedures.....	15364
Conodonts from Chappel limestone of	
Texas, geology.....	4930
Conroy, James F., relief.....	14172,
14429, 15607	
Consciousness:	
mechanisms, role of reticular for-	
mation of brain stem, USSR	
studies.....	1813
nature of individual man as high-	
est degree of mental develop-	
ment, USSR study.....	14933

# JANUARY-DECEMBER

	Entry		Entry
Consciousness—Continued		Construction of officer leadership	
relation to higher nervous activity,		qualification inventory OLI-1.	4128
USSR study	7952	Construction reserve funds, see Ship-	
Conscription:		building.	
draft provisions of military service		Consuls:	
and training act, extend—		fees for services to American ves-	
hearings	3318, 4735	sels and seamen, authorize,	
reports	3313, 4546	hearings	12534
local board memoranda	2935, 11479	foreign consular offices in U.S.	13597
selective service (periodical)	2933, 11477	treaty with Muscat and Oman,	
selective service college qualifica-		text	12343
tion test—		Consultants, science and mathemat-	
bulletin of information	5401	ics, secondary schools	12594
poster	5400	Consumer credit, see Installment	
selective service regulations	2934, 11478	credit.	
Conservation, see Natural resources—		Consumer goods, see Commercial prod-	
also subjects.		ucts.	
Conservation bibliography	14585	Consumer income, see Income.	
Conservation farming, see Soil con-		Consumers:	
servation.		appraisal, imported wool fabrics in	
Conservation information, SCS-CI		clothing	5483
series	1174, 9497	concepts of fabric	11632
Consistency (psychology):		cost of convenience foods, pilot	
peer ratings in Air Force study	9646A	study	21
Conspiracies, organize definition un-		demands, prices and wages (ad-	
der Smith act, amend U.S.		dress)	9272
Code, report	4553	effects of coupons and special offers	
Constan, Eleanor, relief	16009	on sales of butter, etc.	13734
Constitution of United States:		finances survey, 1959	6165, 17414
amendments—		financial position, 1959	14645
equal rights, report	8814	food expenditures	1256
investigation, authorization, re-		fruit and juice purchases	2195-96,
port	3369		10652-653, 11575
Presidential terms of office, hear-		greater use of fish and shellfish, fall	
ings	12558	promotion program of com-	
reserve State control over public		mercial fishing industry	14662
schools, hearings	16211	information about food standards	9058
taxes on incomes, inheritances		loans, monthly estimates	2574, 11111
and gifts, hearing	313	pesticide protection, Food and Drug	
Federal constitutional convention,		Administration's control pro-	
problems, summary and tables	5930	gram	440
our Constitution and Government,		preference for 6-to-1 apple juice	
Federal textbook	6315	concentrate	11636
right to travel, legal opinions, staff		preferences, frozen peas, in relation	
study	327	to standards for grades	102
rights of accused persons, insure		price index	11272
protection, hearings	334	behavior in periods of business	
study of constitutional aspects of		recovery	10402
police detention prior to ar-		monthly report	2735
raignment and confessions ob-		relative importance of items,	
tained from suspects, hearings,		technical note	16605
errata	336	selected items and groups	2736, 11273
study of constitutional rights—		short description	9292
expenses, reports	3372, 16061	price trends and indexes, United	
hearings	339, 8902, 14570-	States, 1953-58—	
	572, 16215	departmental edition	13291
report on findings	4724	document edition	12045
text	4669, 5795, 10106	purchases by family characteristics,	
Constitutions:		canned fish	16384
labor unions, provisions for elec-		purchases of canned fish	4859, 9042,
tion and tenure of national			10132, 12687, 14666,
and international officials,			16383, 17429
1958—		purchasing power of dollar in U.S.	
departmental edition	3813	cities, 1913-59	16667
document edition	3269	research—	
Vietnamese Association of Eastern		how you can size up consumers	
Medicine	3651	you'll never see (address)	7020
see also Laguna Pueblo, N. Mex.		what is and what is not good	
Constructing charts of wind fields over		(paper)	11592
sea, USSR	6586	single spending pattern in 3 pe-	
Construction, see Building—Install-		riods	8007
tions (military).		Consumption (economics), see names	
Construction equipment, see Building		or classes of commodities.	
machinery.		Contactless magnetic devices for sys-	
Construction industry, see Building.		tem of control, USSR study	13264
Construction labor, see Labor.		Contagion and contagious diseases:	
Construction machinery, see Building		CDC training program bulle-	
machinery.		tins	15165-166
Construction materials, see Building		children's infectious diseases, hand-	
materials.		book, excerpts	5109
Construction of Building for Museum		control, scientific and practical	
of History and Technology for		tasks, USSR study	17564
Smithsonian Institution Joint		controllable infections, USSR	
Committee, report	8812	study	13275



# INDEX, 1959

	Entry		Entry
Contagion and contagious diseases—		Continuation of a legend, USSR—	10234
Continued		Continuity of government program—	1484
hospital in-service training pro-		Continuous flow ultramicroscope	
gram—	10571	VDK-4, USSR studies—	5101
infectious diseases—		Contract Appeals, Armed Services	
problem of eradication, USSR	13226	Board, see Armed Services	
study	14912	Board of Contract Appeals.	
problems of control in USSR—		Contractions, see Abbreviations.	
research progress, 1958 high-		Contractors:	
lights	16946	Army's research and development	
infectious processes, age reactivity		guide—	15375
problems excerpts	3685	prime, Navy, selling to—	6869
morbidity and mortality weekly re-		quality control systems evaluation,	
ports—	2857, 11398	military standard—	1588
prophylaxis, USSR army and navy		see also Government contracts.	
physicians, participation—	863	Contracts, ICA contracts notice—	2690, 11229
publications, price list—	15162	see also Collective bargaining—	
sanitary-epidemiological matters,		Government contracts.	
USSR study—	14853	Contradictions of communism, report—	10048
Soviet immunology in problem of		Contributions to State and Local	
live vaccines—	1955	Governments Commission, see	
training program—	4029	Federal Contributions to State	
ultraviolet irradiation use to pre-		and Local Governments Com-	
vent droplet infections—	831	mission.	
USSR congress of specialists, sum-		Contributions to stratospheric mete-	
mary—	616	orology—	1354
see also Diseases of animals—also		Control (aircraft), see Aircraft—	
names of diseases.		Aircraft automatic pilots—	
Containers:		Stability of aircraft.	
cargo, for cargo ships, U.S. and		Control areas and zones, see Airways.	
western Europe, survey and		Control surfaces, see Missiles.	
analysis—	3836	Control systems:	
conex, cargo, dehumidified, etc.,		automatically controlled super-	
optimum size and configuration,		sonic interceptor during attack	
interim report—	5445	phase, theoretical analysis of	
food, effect of fallout contamina-		longitudinal behavior—	3914
tion, test—	8414	contactless magnetic devices,	
glass—		USSR study—	13264
closures and crowns, facts for		electronic, used with rigid force	
industry—	5689	control stick in fighter air-	
facts for industry—	2371, 5694, 10902	plane, flight investigation—	16913
industry, midyear review and		nonlinear system—	8072
outlook for 1959—	9686	oblique-shock sensing, application	
industry reports—	2335, 10808	to ram-jet-engine flight Mach	
multiquart, their significance in		number control—	6707
dairy cooperatives—	3434	shock-positioning for variable-ge-	
packaging and packing supplies,		ometry inlet in combination	
Federal supply schedule—	4836, 16367	with J34 turbojet engine, in-	
pertinent information for manufac-		vestigation—	989
turers, etc., bibliography—	8218	Control-tower operators, see Airport-	
shipping containers for frozen tom		control tower operators.	
turkeys—	11640	Controllable infections, USSR—	13275
steel shipping, industry, midyear		Controlled recirculation boiling re-	
review and outlook for 1959—	9695	actor, see Reactors (atomic).	
strippable film, use for long-term		Controlled Thermonuclear Confer-	
storage process, standardiza-		ence, Feb. 3-5, 1958, papers—	1396
tion study—	8163	Controllers, see Air defense control-	
see also types of containers.		ler.	
Contamination:		Controls (aircraft), see Aircraft.	
air from beryllium facilities, health		Controls for supersonic missiles—	16749
protection experience, 10 years		Convection of heat, see Heat trans-	
summary—	1384	fer.	
atomic, chemical, etc., medical		Conventions, see Conferences, con-	
first aid methods, USSR		gresses, etc.	
study—	7960	Conversions of C-C <sub>n</sub> n-alkanes in	
radioactive, human body, use of low		presence of aluminum-chromium-	
level scintillation spectroscopy		potassium catalyst, USSR—	1911
in evaluating—	11720	Converters, see Photoconverters.	
Contested elections:		Conveyors:	
Alford vs. Hays—		labor saving, etc., benefits—	1170
hearings—	3321, 14339	monorail, used in eviscerating	
report—	15914	poultry—	5477
Knutson vs. Langen, hearings—	3321	sawmill, used for carrying sawdust,	
Mahoney v. Smith—		edgings, etc., away from mill,	
motion by contestee—	7338, 9811	description—	6243
report—	8546	Cook, Arthur E., gratuity payment to	
Myers v. Springer, complaint of		daughters, report—	16064
Mr. Myers—	7336	Cook, Mabel E., gratuity payment for	
Contests, sales contests for whole-		services of Arthur E. Cook, as	
salers—	17844	architect of Capitol, report—	16064
Continental Hosiery Mills, Inc., re-		Cook, John R., relief—	4492
lief—	14367	Cook, Ind., motor carrier accident in-	
Contingency option benefits for serv-		vestigation—	3633
ice dependents—	7126		

# JANUARY-DECEMBER

	Entry
<b>Cookery:</b>	
baking handbook.....	5437
fish and shellfish, publications available from Superintendent of Documents.....	10558
publications, price list.....	6904
scallop on table year round.....	12692
turkey on table year round.....	95
<i>see also</i> Recipes.	
<b>Cooking, see</b> Cookery.	
<b>Cooking appliances, facts for industry.....</b>	<b>2371, 10902, 13861</b>
<b>Coolants:</b>	
flow and pressure requirements for return-flow turbine rotor blade design.....	6722
gamma shield design using IBM type 650 computer.....	7139
Cooley, Gerald M., relief.....	5824
	8775, 11880
<b>Cooling:</b>	
air-cooled—	
crucibles for cold-mold arc melting.....	5205
turbine blades, static sea-level performance of axial flow compressor turbojet engine.....	6709
turbines having rotor-tip discharge, analytical investigation of factors affecting performance.....	10473
turbojet engines, performance determined analytically for range of cooling-air weight flows.....	13396
air ejectors, flight evaluation.....	15045
auxiliary inlets supplying secondary air flow to ejector exhaust nozzles.....	1004
corrugated-insert turbine blade with cast shell and base, performance and structural reliability.....	5244
cranberries, shipped by rail or truck, effect of precooling on market quality.....	1313
electronic equipment, forced air methods, design manual.....	1166
gas turbine systems—	
air-cooling, review of status, etc. use of main-inlet bypass to supply airflow to ejector exhaust nozzles at supersonic speeds.....	5235
loads for air-conditioning swine housing, estimating.....	5243
organic cooled power reactor study.....	13710
precooling Louisiana strawberries.....	13809
propellants, effects of rocket-engine design parameters on regenerative capabilities, analysis.....	15320
requirements of corrugated-insert-type turbine blades suitable for supersonic turbojet engine.....	16896
temperature drops through liquid cooled turbine blades with various cooling-passage geometries.....	2040
transpiration, turbine-rotor blade with wire cloth shell, exploratory engine test.....	3597
turbine rotor blades, transpiration-cooled strut-supported, design.....	3891
turbines.....	16790
air-cooled, temperatures in turbojet engine at inlet temperatures up to 2580° R and altitudes of 50,000 feet, etc.....	6715
core dimensions of heat exchanger with 1 dominating film resistance.....	3903
gas-turbine-engines, use of rotating heat exchangers.....	3899
wheel rim cooling, evaluation of compressor bleed system.....	6699

	Entry
<b>Cooling—Continued</b>	
turbojet engines, liquefied hydrocarbon as fuels, evaluation.....	1014
<i>see also</i> names of commodities.	
<b>Cooling appliances, see</b> Refrigeration and refrigerating machinery.	
<b>Cooling systems:</b>	
acid cleaned—	
conditioning treatment method extends use life.....	10552
test methods for procurement of alkaline cleaner of conditioning treatment.....	13530
gas-turbine—	
effect of free-stream Mach number on gross-force pumping of ejectors.....	3893
porous wall of wire cloth, screeching-combustion characteristics.....	984
use of water injection from rotating injection orifices.....	3894
Co-op role in Federal milk orders, 25 years of public service.....	16280
Cooperage, disabling work injuries in manufacture.....	1971
Cooperation, <i>see</i> International cooperation.	
Cooperation, 2-way road.....	17833
<b>Cooperatives:</b>	
agricultural—	
North Vietnam, articles.....	10309
production, collectivization and socialization of domestic labor.....	569
Vietnamese Lao Dong Party central committee directive on cooperativization methods of guaranteeing better winter-spring harvests.....	6373
country grain elevators in Montana.....	12626
differences between production teams, producer, and handicraft producer cooperatives in North Vietnam.....	4907
lending organizations, 25 years of production credit, anniversary report.....	6111
petroleum operations.....	14610
rural electricity, growth and future (remarks).....	1163
Thai Binh Province, North Vietnam, 1958.....	6362
<i>see also</i> Banks for cooperatives—	
Farmers' cooperative organizations— <i>also</i> names of commodities— <i>also</i> names of cooperatives.	
<b>Coordinates:</b>	
meteorological, system in which earth's surface is coordinate surface.....	8343
State plane coordinate intersection tables.... 3243, 8487, 11849-850	
<b>Coos Bay Wagon Road:</b>	
revested grant lands, permit lease to Oregon—	
law.....	9786
reports.....	5844, 8859
Coos County, Oreg., Douglas fir sawtimber stand, mortality study.....	493
Coplan, Margaret P., relief.....	14191
Coplan, Donald G., relief.....	13976, 14188, 14386
<b>Copper:</b>	
alloys—	
copper-aluminum, effects of creep stress on particulate.....	16914
copper-titanium, preparation and properties.....	6880

# INDEX, 1959

Entry	Entry
Copper—Continued	Cordage, manufacture, earnings, summary release..... 9296
alloys—continued	Cordoba Island, inspection stations, agreement with Mexico..... 17116
effect of gases on density of layer of potassium ethyl xanthogenate on surface by means of radioactive isotopes, USSR study of theory..... 1744	Core drilling:
block-caving mining methods and costs, Bagdad mine..... 8030	cable-tool coring with oil-base mud in Appalachian oilfields..... 3871
chelating ability of oyster, tissue ascorbic acid oxidation..... 9036	land-pegble phosphate district, Fla., geologic exploration results, 1953..... 10189
decoppering crude lead, new method, USSR..... 1800	sampling of Cuyuna-Range manganeseiferous iron formations, Crow Wing County, Minn..... 6665
economizing in national economy of USSR, conference on problem..... 658	test well cores and cuttings, analyses—
ferrites, low-temperature heat capacities..... 16726	Sentinel Hill and Fish Creek areas, Alaska..... 7852
Government inventory, opposing release, report..... 6039	Simpson area, Alaska..... 6293
Industry—	Core materials:
midyear review and outlook for 1959..... 9697	magnetic properties, effects of extremely high temperatures..... 10550
outlook for 1959 and review of 1958..... 1446	reactor, review of recent developments..... 2326, 10774
production, etc., 1958, preliminary report..... 3867	sandwich construction—
United Kingdom..... 15447	apparatus for measuring internal friction and fatigue strength..... 4903
Industry report—	brazed honeycomb titanium panels..... 4276
annual..... 7171	Core sands, see Sand.
quarterly..... 2336, 10809	Cores (drill), see Drill cores.
iron alloys, copper rich, precipitation processes..... 17255	Cores (magnetic):
mill and foundry products, facts for industry..... 2372, 7208, 10903	loadings of NRL research reactor, compilation..... 2082
mine production—	magnetic core sampling of iron ore, Bulgaria..... 3796
Pend Oreille and Stevens Counties, 1902-56..... 1986	Cores (reactor), see Reactors (atomic).
United States, 1958, preliminary annual figures..... 3862	Corey, Herbert, papers in Library of Congress, register..... 5180
minerals yearbook chapter..... 16689	Corn:
mining methods and costs—	acreage allotment problems (address)..... 68
Anaconda Company..... 6651	chinch bug control..... 1308
Howe Sound Co..... 1984	clean corn will pay dividends..... 9056
ore manifestation in Aulavik region..... 1777	crop, harvesting methods, 1956..... 8290
ores, oxidized and mixed oxide-sulfide, treating by segregation process..... 16725	feed grain surplus problem (address)..... 63
production, etc., 1958..... 13344	hybrids, planted acreage..... 13690
production from domestic mines, stabilizing, hearings..... 3330	irrigation of field corn in West..... 98
refined metal and scrap at brass mills..... 11374	lister planter attachment for sideband placement of starter fertilizer..... 11597
reports, monthly..... 2800, 11344	new industrial future..... 13713
research program of Mines Bureau..... 13344	shelled—
scrap consumers reports..... 2801, 11345	protection from insects, evaluation of synergized pyrethrum..... 8318
secondary, production, etc., 1958..... 10448	stored in metal bins in Southeast, protective treatments, tests with malathion and methoxychlor..... 13735
sintering fundamentals, progress report..... 17260	sweet, control of earworms, 5 year research..... 7032
Copper sulfate:	topping effects, reports..... 15286
control method for Florida red tide, large-scale experimental test..... 6197	see also Popcorn.
addendum..... 10135	Corn Belt, grain aeration systems, operation..... 15317
monthly reports..... 2802, 11346	Corn earworms, see Bollworms.
production, 1958..... 5199	Corn sirup, solids, use in packaging and freezing fish..... 9038
Copyright:	Cornell, Joseph H., relief..... 12102, 13993, 14426
catalog of copyright entries..... 344-346	Corning, N.Y., population, special census..... 8448
4751-52, 7648-51, 8911-12, 16232-233, 17363-364..... 6155	Coronado National Memorial, general information..... 2071
code of Federal regulations..... 6155	Corporate author entries used by Technical Information Service in cataloging reports..... 11743
denial of registration of claims because of content, opinion of Attorney General..... 9269	Corporations:
infringement by United States, amend U.S. Code, report..... 12134	banking, etc., foreign operations under Federal reserve act, regulations..... 406
laws, investigation—	
expenses, report..... 3371	
report..... 4729A	
royalties, exclude from personal holding company tax, report..... 15791	
United States code, amend, hearings..... 14345	
Copyright Office, report, 1958..... 1573	

	Entry		Entry
Corporations—Continued		Corrosion and anticorrosives—Con.	
corporate reorganization releases, SEC.....	2922, 11467	fish tagging pins, resistance to corrosion.....	4863
District of Columbia business corporation act, amend—		halogen-containing gases as boundary lubricants for alloys at 1200° F.....	5292
law.....	11993	interactions between 4 volatile inhibitors.....	4003
reports.....	12142, 12406	lacquering steel, sampling tubes for protection.....	14606
District of Columbia, limitation on number of trustees, eliminate—		prevention methods to reduce losses at naval shore facilities.....	13671
law.....	11970	rust prevention and removal, 1934-59.....	15444
reports.....	8630, 10012	sodium hydroxide-nickel system, mechanism of thermalgradient mass transfer.....	6681
foreign business, tax, amend internal revenue code, hearings.....	14360	steel in USSR coke-chemical plants apparatus, problems.....	805
heavily concentrated industries, price notification legislation, hearings.....	17358	tests on materials in regenerative air preheaters.....	9353
income tax rate, extension—		volatile corrosion inhibitor oils, properties and proposed quality control tests.....	5368
hearing.....	10033	volatile corrosion inhibitors, bibliography and abstracts.....	17009
law.....	11962	Corrosives, effects of plastics on metals.....	13527
reports.....	8696, 9835, 9886, 10001	Corrupt practices act, see Political corruption.	
income tax returns, statistics, 1956-57.....	7873	Corticosterone in suprarenal blood of rats at various periods after irradiation, USSR studies.....	3736
income taxation, advisory group recommendations—		Cortisone:.....	
hearings.....	5938	effect on basic processes of cerebral cortex, USSR study.....	6610
report.....	5940	influence on changes in bactericidal activity of blood serum and properdin system, USSR studies.....	6438
summary.....	9932	Cortisone acetate, new drug, therapeutic use, USSR study.....	12932
merged, credits against unemployment tax, report.....	15845	Corundum, dissolving mechanism in aluminosilicate slag.....	1781
premerger notification legislation, amend Clayton act, hearings, proceedings in bankruptcy, increase fee for filing petitions, report.....	7640	Corunna, Ind., motor vehicle accident.....	12796
sales, profits, and dividends.....	16072	Cosmetics:.....	
shipping, having alien directors, modify citizenship requirements—	2591, 11128	F.D.C. regs.....	435-436
law.....	15692	food, drug, and cosmetic act—	
reports.....	14213, 14505	amend, law.....	5776
small business, taxable status—		amend, reports.....	4558, 4597, 4613, 4713
law.....	15740	color additives amendments of 1959, report.....	16073
report.....	16135	cream and butter requirements, how to meet.....	12693
supervised by FCA, audit report, 1958.....	4444	enforcement and compliance report.....	11176
Western Hemisphere trade corporations, taxation concession.....	6221	enforcement regulations, general, insert.....	16393
Corpus Christi, Tex., Naval Air Station, overhaul and repair department, closing, investigation, report.....	16191	requirements guide, foreign manufacturers, etc., erratum.....	3515
Corpus Christi Waterway, see Port Aransas-Corpus Christi Waterway.		text, revised pages.....	7762, 12694
Correctional institution, see Reformatories.		notices of judgment.....	4866
Corregidor-Bataan Memorial Commission, activities, report, 1958.....	4448	Cosmic rays, origin, USSR study.....	10245
Correlation (statistics):.....		Cosmochemistry, Soviet abstracts.....	765,
coefficient, notes.....	11673	781, 785, 1852, 1857-58, 1860, 3745, 3748, 3752, 3763, 3776, 6567, 10291, 10321, 13016, 13106, 13118, 13133.	
duplicity of BM-AGA data, evaluation of apparatus and procedures with industrial coking.....	8050	Cost:.....	
Correspondence:.....		farm, commercial family-operated farms, by type and location.....	13725
aids, CA series.....	3039	industry, planning of costs and profit formation, Czechoslovakia.....	1914
Air Force manuals.....	1330, 5567-68	marketing Appalachian apples.....	4181
engineering manual.....	7678	see also names of commodities, e.g. Milk—also subjects.	
government publications, list.....	15158	Cost and standard of living:.....	
workshops, agency view (address).....	13453	Communist China, newspaper summaries, etc.....	6452
Correspondence schools and courses:.....		conditions in—	
Navy training manuals and correspondence courses, list.....	6846	Austria.....	4887
USAFI, participating colleges and universities, DOD pamphlet.....	4281, 9648	Bolivia.....	461
Correspondents, passports to visit Communist China, denial, hearing.....	339	Brazil.....	1660, 14699
Corrosion and anticorrosives:.....			
austenitic steel, at high temperatures and pressures.....	1927		
chemical and galvanic, corrosion properties of titanium alloys.....	942		
corrosion resisting steels, cleaning and passivation.....	4000		



# INDEX, 1959

	Entry		Entry
Cost and standard of living—Con.		Cotton—Continued	
conditions in—continued		fibers and yarns—continued	
British Honduras.....	3541	fiber maturity and fineness meas-	
Burma.....	467	urement, apparatus for Causti-	
Ceylon.....	3537, 4888	caire method.....	11572
Communist China.....	705	fiber strength tables for flat	
Cuba.....	466	bundle tests at ¼ inch gauge.....	11569
Ethiopia.....	1664	foreign agriculture circulars.....	2643, 11182
Fed. Rep. of Germany and West		foreign trade prospects.....	3520
Berlin.....	9078	futures—	
Honduras.....	17445	acts and other laws, compla-	
India.....	17443	tion.....	1511
Ireland.....	14696	commitments of traders.....	2426, 10957
Japan.....	465	trading and open contracts.....	2427-28, 10960-961
Liberia.....	16423	trading, monthly.....	2424, 10955
Pakistan.....	12709	household furnishings made from	
Panama.....	7801	cotton, homemakers use and	
Peru.....	1663	appraisal.....	101
Uruguay.....	469	imports of manufactures, foreign	
factors involved in rising costs		trade reports.....	2358, 10889
(address).....	13277	industry, world-wide problems and	
improvement for all peoples of		policies (remarks).....	11649
world (remarks).....	5450	insect research and control, 12th	
improvement in living standards		annual conference report.....	5514
achieved since 1888, descrip-		irrigation in Southwest.....	11595
tion.....	10396	linters, market potential.....	11637
sanitary living conditions of So-		long staple, import quota investiga-	
viet people in light of 7 year		tion, report.....	10613
plan for development of national		man-made fiber staple, and linters,	
economy.....	13274	facts for industry.....	1470, 2371, 10902
standards of living, and standards		manufacture, earnings, summary	
for trade (address).....	272	release.....	3817
Cost ascertainment report, see Mail		market outlook (talk).....	13698
matter.		marketing—	
Costa Rica:		channels and division of con-	
economy, basic data.....	12707	sumer's dollar.....	11565
import tariff system.....	4891	costs of services.....	8279A
Costumers:		outlook for 1959 (statement).....	1264
general office, metal, Federal stand-		partial acetylation—	
ard.....	16355	potential markets.....	11570
wearing apparel, steel, general,		preliminary cost studies.....	1280
office, Federal standard.....	16361	price statistics, monthly.....	10689
Cottage cheese, see Cheese.		prices—	
Cotton:		cloth and raw cotton, etc.....	11583
Acala, ginning in Southwest.....	8332	spot quotations.....	2264, 10715
acreage allotments—		statistics, monthly.....	2235
exchange for rice allotments,		production—	
hearings.....	5905, 12272	crop of 1958.....	9706, 11578
sale or lease within county,		monthly release.....	2236, 10690
hearing.....	7436	production and distribution, sta-	
unused, reallocation—		tistics.....	5675
hearing.....	15936	Soviet Union, report of U.S.	
report.....	12223	technical study group.....	8333
views.....	12223	use of green manures and ferti-	
bale coverings, problem of improve-		lizers on Lakeland sand in ly-	
ment.....	4183	simeters, experimental results.....	7070
better quality for expanded mar-		quality in 1959 carry-over.....	15271
kets (remarks).....	8283	quality, statistics, United States,	
broad woven goods, facts for in-		1957-58.....	114
dustry.....	2372, 9715, 10903	reports for ginning.....	2222, 10677
choice A, purchase and resale,		seed-cotton input control for gins.....	9617
hearing.....	17329	spinning performance tests, evalu-	
cloth, prices of cloth, raw cotton,		ation.....	4140
and mill margins.....	2258, 10710, 11583	SRRL opener-celaner.....	17189
compensatory payment plan, hear-		surplus stocks, sale to domestic	
ings.....	12268	mills—	
cotton and cotton linters stand-		hearings.....	17328
ards.....	3031, 13701	report.....	12439
Cotton Disease Council, papers.....	11607	textile exports, Communist China,	
cotton situation.....	2197, 10654	growth and effect on world	
effects of exposing to gas plasmas,		markets.....	6210
progress report.....	17182	textile imports, action under sec. 22	
fibers and yarns—		of AAA act, hearings.....	14329
fiber and processing tests—		upland—	
results, 1958 crop.....	22-23, 1253-1254, 5529	acreage allotments, lease within	
results, 1959 crop.....	11576-577, 13685-686, 13703, 15257-258, 17174-175	county, hearing.....	6042
fiber and spinning properties,		farm allotments and price sup-	
1958 crop.....	15296	ports for 1959.....	4189
fiber characteristics and spinning		grade and staple length.....	22 38, 10692
performance.....	5529	lease of acreage allotments—	
fiber effects of gin drying and		law.....	14027
cleaning on quality (paper).....	9579	report.....	5997
		use in children's clothes, mothers'	
		preferences.....	3019

# JANUARY-DECEMBER

	Entry		Entry
Cotton—Continued		Counseling—Continued	
varieties planted—		national defense education act of	
1955-59.....	13687	1958, training institute pro-	
early producing areas of Texas,		gram, analysis.....	370
1959.....	9577	Counselors:	
weekly cotton linters review.....	2225, 10680	vocational rehabilitation—	
weekly cotton market review.....	2226, 10681	programs, casework performance	
weekly report of on call positions		guide.....	9540
and transactions in spot cot-		psychological services.....	15236
ton.....	2432, 10965	Council, District of Columbia:	
woven goods finished, facts for in-		create—	
dustry.....	15473	hearings.....	10032
see also names of manufactured ar-		report.....	10020
ticles and materials.		Council of Economic Advisors:	
Cotton cloth, see Cotton.		member, nomination of Henry C.	
Cotton Disease Council, papers.....	11607	Wallich, hearing.....	7609
Cotton gins and ginning:		nomination of Karl Brandt, hear-	
Acala cottons ginning in South-		ing.....	6051
west.....	8332	Council of Europe, invitation to Con-	
charges.....	8279A, 10899	gress to participate in 2d	
consolidated cotton reports.....	2368, 10899	Strasbourg Conference, re-	
cooperative gins, effect of grades		ports.....	7549, 7567
and weights on cottonseed mar-		Counter-electrophoresis in enzyme-	
gins.....	6112	substrate systems, USSR.....	13241
cotton ginnings—		Counterfeits, see Money.	
by counties.....	2369, 10900	Counterpart funds and foreign cur-	
by States.....	2370, 10901	rency accounts.....	2685, 11225
cotton production, crop of 1958—		Counters:	
equipment, 1957—		apparatus, used, handbook, USSR	
south central area.....	15260	study.....	17515
southeastern area.....	15261	continuous flow ultramicroscope	
southwestern area.....	15262	VDK-4, USSR studies.....	5101
United States.....	15263	totalizing wind, for contacting-type	
western area.....	15264	anemometers, history of devel-	
equipment, 1959.....	15259	opment, etc.....	7839
gin drying and cleaning effects on		see also Scintillation counters.	
fiber quality and mill process-		Counties:	
ing performance and costs		agencies engaged in agricultural ex-	
(paper).....	9579	tension work, donation of fed-	
method for determining effects of		erally owned property pres-	
various treatments on spinnab-		ently on loan—	
ility (paper).....	9583	hearings.....	17353
pink bollworm kill.....	4191	report.....	16095
reports on cotton ginning.....	2229, 10677	governments, finances, census of	
seed-cotton input control.....	9617	governments, 1957.....	13829
stick remover for cotton gins.....	5553	Counties, see also subject involved.	
using your co-op cotton gin.....	14608	Countries, see Foreign countries—	
Cotton machinery, stick remover for		also subject involved.	
cotton gins.....	5553	Country life:	
Cotton mills:		community forests for rural people.	
cotton prices and mill margins.....	11583	rural development program, prog-	
drying and cleaning equipment at		ress, 3d annual report.....	85
gins, effects on fiber quality		Country Life Commission, establish,	
and mill processing perform-		hearings.....	12269
ance and costs (paper).....	9579	Couplings, active impedance, BS-2	
Cotton seed, see Cottonseed.		traveling wave antenna, de-	
Cottonseed:		sign, etc., USSR study.....	17562
grades and weights effects on mar-		Courses of study, see Curriculum.	
gins of cooperative gins.....	6112	Court of Claims:	
production, 1958.....	11578	cases:	
quality crops of 1956-57.....	29	calendars.....	2480, 11012
quality crops of 1957-58.....	15265	decided July 1-31, 1957.....	1574
Cottonseed meal, futures trading and		decided Aug. 1-Dec. 31, 1957.....	8913
open contracts.....	2431, 10964	judgments rendered, list.....	1564
Cottonseed oil:		rules.....	8913
futures trading and open con-		transfer of cases to District courts,	
tracts.....	2427-28, 10960-961	report.....	9841
supplies, prices, growers' return		Court of Customs and Patent Appeals,	
rel. to mill economies, supple-		cases adjudged.....	347, 11523
ment.....	4176	1575, 2975,	
Cottonseed oil mills:		Court of Military Appeals:	
economies, oil supplies, etc., supple-		court martial reports, holdings and	
ment.....	4176	decisions.....	4760, 6084
pink bollworm kill.....	4191	report, Jan. 1-Dec. 31, 1958.....	7654
Cottonwood, eastern, site index		Court of patent appeals, proposals to	
curves.....	7809	establish, 1887-1957.....	6073
Coulee Dam National Recreation		Courts, see Courts of United States—	
Area, general information.....	10525	also names of courts.	
Council of Economic Advisors, amend		Courts martial and courts of inquiry:	
act, creating answers to in-		instructions guide, Air Force man-	
quiries.....	15945	ual.....	8358
Counseling:		Judge Advocates General boards of	
employee, improving skills of super-		review and Court of Military	
visors, conference leader's		Appeals, reports, holdings, and	
guide.....	877	decisions.....	4760, 6084

# INDEX, 1959

	Entry		Entry
Courts martial, etc.—Continued		Crates—Continued	
military justice handbook, trial		wirebound, and cartons, used in	
counsel and defense counsel—	5621	shipping Florida citrus fruit,	
Courts of inquiry, <i>see</i> Courts martial		comparison—	17171
and courts of inquiry.		wood, proper nailing—	13722
Courts of United States:		Crawford, Nebr., land conveyance, re-	
appropriations, 1959, supplemental,		lease reversionary interest, re-	
proposal—	4466	port—	12231
appropriations, 1960—		Cream:	
hearings—	7451, 10025	definitions and standards—	436
law—	11971	fluid milk and cream monthly re-	
reports—	8640, 9998, 12130	ports—	2242, 10696
supplemental, proposal—	12334	food, drug, and cosmetic act re-	
Federal judicial system, study, au-		quirements, how to meet—	12693
thorization, report—	7568	Cream of tartar, trade agreement es-	
Federal preemption doctrine, estab-		cape clause investigation, re-	
lish rules of interpretation—		port—	4103
hearing—	8740	Creameries, midwestern, butter prices,	
reports—	8684, 9836	problems of reporting—	3018
views—	8684	Creation (literary, artistic, etc.):	
field study of operations—	7602	prediction of creativity in research	
handbook, print, report—	15903	scientists—	5605
proceedings in forma pauperis, in-		Creative organs, <i>see</i> Generative or-	
clude aliens—		gans.	
law—	15685	Creative path of Vladimir Andreye-	
reports—	12148, 16153	vich Dubyansky—	5153
register, 1959—	874	Creativity, <i>see</i> Creation (literary, ar-	
Cowling, axisymmetric, having lip		tistic, etc.).	
angles at Mach nos. 1.90 to		Credit:	
4.90, pressure drag—	2043	brokers, dealers and members of na-	
Cowls, <i>see</i> Cowling.		tional securities exchanges,	
Cowpeas, frozen black-eye peas, U.S.	13705	regulations—	9009
Cows:		code of Federal regulations—	6140
dairy—		business credit—	6138
care and management—	11624	department store—	2575, 11112
interstate movement, selected		foreign, information, domestic	
States, 1958—	7024	sources—	451
milk production by months,		long term, make available for small	
1957-58—	3026	business law, questions and an-	
feed additives, minerals, and vita-		swers—	328
mins for dairy cattle—	7036	monetary policies in President's	
improving your dairy herd through		program, amend employment	
DIFA national cooperative		act—	
program—	1305	hearings—	7467
milk—		report—	9848
concentrate rations fed to, 1958—	4145	views—	9848
June, numbers on farm—	11582	money and credit, 1958—	4825
Coyote Valley Reservoir:		money and credit in economic ex-	
designate as Lake Mendocino—		pansion—	12660
law—	14056	mortgage, study, problems of pri-	
reports—	7404, 14481	vate housing, hearings—	12529
CP, <i>see</i> Chemicals and Plastics Di-		sales finance companies operations	
vision.		monthly reports—	2590, 11127
CP&R memoranda—	421	where credit is due (address)—	7253
CPSU, <i>see</i> Communist Party of Soviet		<i>see also</i> Agricultural credit—Fed-	
Union.		eral credit unions—Install-	
Crabs, <i>see</i> King crabs.		ment credit—Loans—Produc-	
Crack propagation tests of some high-		tion Credit Associations.	
strength sheet steels—	5351	Credit bureaus, small credit bureau,	
Cracking plants, <i>see</i> Petroleum refin-		starting and managing prob-	
eries.		lems—	17845
Craft (nautical):		Credit unions:	
pleasure, highlights of Federal boat-		rural—	
ing act of 1958, etc—	3246	organization, services, etc—	16278
Cramer, Marion A., relief—	14163	place to save and borrow—	13569
Cranberries:		<i>see also</i> Federal credit unions.	
indicated production, 1959—	15266	Creditors, meetings, amend bankrupt-	
prepackaged, maintenance of qual-		cy act, report—	9883
ity during retail display—	7059	Creek Indians:	
production, use, value, 1957-58—	13688	funds, distribution, amend act—	
refrigerated storage—	7054	law—	15617
shipped by rail or truck, effect of		reports—	14265, 14439
precooling on market quality—	1313	land owned by tribe, sell to Eufaula,	
Cranes, derricks, etc.:		Okla.—	
excavator and self propelled, lines		law—	15702
of development in production,		reports—	14267, 16107
USSR study—	12912	Creep of metals:	
shipboard cranes and burtoning		applications to plates and columns,	
gear, evaluation of cargo han-		errata—	947
dling—	5183	buckling of unstiffened circular cyl-	
Crash fires, <i>see</i> Fires.		inders subjected to bending at	
Crash rescue, <i>see</i> Aircraft accidents.		elevated temperatures, deter-	
Crashes, <i>see</i> Aircraft accidents.		mination—	10505
Crates:		collapse of columns, theoretical	
construction, etc., publications list—	10173	analysis—	16909
Federal supply schedule—	4836		

# JANUARY-DECEMBER

	Entry		Entry
Creep of metals—Continued		Critical voltage levels as criterion for planning power systems, Poland.....	672
square plate loaded in edge compression, theoretical analysis of behavior.....	1094	Criticality studies, literature search.....	13800
stress effects on aluminum-copper alloys, particle dissolution.....	16914	Critique of certain fundamental conceptions in radiobiology, USSR.....	6442
structural, experimental research on some aspects of theory, USSR.....	1924	Crittenden County, Ky., Big Four fault system, geology and fluorspar deposits.....	6282
structural joints of aircraft materials under cyclic loads and temperatures.....	16928	Crockett, Luther M., relief.....	8783, 11929
Creosote, distillation residue studies in marine borer control.....	10542	Crooked River project: capacity for future irrigation, increase—	
Crescent City, Calif., motor vehicle accident.....	6337	law.....	14098
Crested wheatgrass, <i>see</i> Wheatgrasses.		reports.....	12494, 15814
Cretaceous shale, <i>see</i> Shale.		Crop insurance, <i>see</i> Agricultural insurance.	
Crews, <i>see</i> Flight crews.		Crop lands, <i>see</i> Land.	
CREWSCAT problem form and manual, errata.....	4265	Crops:	
Crickets, <i>see</i> Mormon crickets.		crop production—	
Crime and criminals:		grain stocks on farms, quarterly periodical.....	5489, 10655
crimes of Khrushchev, consultations by Un-American Committee.....	15974, 17343	effects of nuclear attack, hearings, excerpt.....	13807
joint offenders, place of indictment and trial, amend U.S. Code, report.....	5843	field and seed crops production, farm use, sales, value, by States, 1957-58.....	7018
PACAF basic bibliographies.....	5600	field seeds, acreage, yield, etc., crop years 1939-56.....	5492-93
publications, price list.....	17032	Food and Drug Administration's pesticide control program.....	440
sentenced for offenses against U.S., amend method of computing good conduct time—		foreign crops and markets—	
law.....	14092	periodical.....	2641, 11180
reports.....	8852, 14286	world summaries, crops and livestock, monthly.....	2642, 11181
subversive activities, penalties, enforce State laws—		forest tree seed crop in New England, report, 1958.....	7832
report.....	8692	insects attacking, insecticide recommendations for control, 1959 season.....	4167
views.....	8692	supplementary sheet.....	13721
uniform crime reports for U.S., 1958.....	14615	Louisiana weekly weather and crop bulletin.....	2248, 10700
special issue.....	400	Mississippi weekly weather-crops bulletin.....	2250, 10702
uniform reporting, quarterly release.....	11054	moisture content determinations, testing standards.....	5502
<i>see also</i> Criminal procedure.		plantings, prospective, 1959.....	5488
Criminal jurisdiction:		reports, contents and dates of release, 1959.....	30
status of forces agreement, operation—		research in Soviet Union, report of U.S. technical study group.....	15328
hearing.....	14550	seed crops—	
report.....	16185	annual summary, 1958.....	3029
Criminal law:		periodical.....	2263, 10714
Democratic Republic of Vietnam.....	592	statistics, world summaries, announcement.....	1645
Mongolian People's Republic.....	591	values, season average prices, value of production, 1957-58.....	3020
People's Democratic Republic of Korea.....	590	errata.....	7014-15
Criminal Police Organization, International, <i>see</i> International Criminal Police Organization.		Virginia crops and livestock.....	2224, 10679
Criminal procedure:		weather and crop bulletin.....	2992, 11545
admissibility of statements and confessions as evidence in U.S. courts, amend U.S. Code—		<i>see also</i> names of crops.	
hearings.....	334	Cross-references within Internal revenue code as of Jan. 1, 1959.....	15978
reports.....	8668, 7418	Crow Reservation:	
views.....	7418	minerals, grant to certain Indians.....	
constitutional aspects of police detention prior to arraignment, hearings, errata.....	336	law.....	15648
police detention prior to arraignment, prescribe time, hearings, representation of indigent defendants—	334	reports.....	14440, 15836
hearings.....	17335	Crow Wing County, Minn., Cuyuna Range manganese iron formations, core-drill sampling.....	6665
report.....	7566	Crowder, Fort, lease portion to Stella Reorganized Schools R-1, reports.....	12245, 16125
<i>see also</i> Habeas corpus.		CRPL, <i>see</i> Central Radio Propagation Laboratory.	
Cripples:		CRT, <i>see</i> Cathode ray tubes.	
crippled children's program—		Crucibles:	
cost of services, 9 State programs, study statistics.....	15486	air-cooled, for cold-mold are melting.....	5205
statistical review, 1956.....	15487		
statistics, 1957.....	15496		
Critical occupations, <i>see</i> Occupations.			



# INDEX, 1959

	Entry		Entry
Crucibles—Continued		Cuban American Nickel Co., nickel-	
boron and zirconium from, effect on		cobalt contracts with GSA, in-	
complex heat-resistant alloy—	8073	vestigation, hearings—	12291
Crude oil, <i>see</i> Petroleum.		Cucumbers, brining and pickling, pub-	
Crushed stone, <i>see</i> Stone.		lications, list—	15293
Crustal structure researches in transi-		Culicoides, <i>see</i> Flies.	
tion region from Asiatic Con-		Culture:	
tinent to Pacific, USSR—	4982	American Commission for Cultural	
Cryoconite of Thule area—	14603	Exchange with Italy, agree-	
Cryolite, alumina-cryolite fusions,		ment—	13630
USSR study—	14854	cultural relations, citizen's role—	17857
Cryptographic clerks, <i>see</i> Communi-		exchange, programs coordination,	
cations coding clerks.		etc.—	
Crystal lattices:		hearing—	16199
and structure, catalog of technical		report—	6037
reports, 1938-59—	7168	influences on children, research pro-	
capture of free excitons by impuri-		grams, studies in progress—	8466
ties in molecular crystals,		international cultural relations of	
USSR studies—	4972	U.S., policies and programs—	13610
face-centered cubic, thermodynamic		international information and cul-	
properties—	8142	tural series—	1194-95, 4072-73,
Crystal rectifiers, <i>see</i> Rectifiers.		9505, 13611, 15197, 17092, 17857	
Crystal units, quartz, irradiation ef-		international meetings, world list—	11320
fects—	13579	postage rates for cultural mat-	
Crystallization:		erials, clarify and make uniform	
binary and ternary systems—	13273	law—	
effect of supersonic vibration on		hearings—	5932, 14575
process, USSR studies—	10363	report—	5886
Crystallography:		United States educational, scien-	
growth theory, confirmation, and		tific, and cultural motion pic-	
relation between equilibrium		tures and film-strips selected	
forms and forms of growth,		for use abroad, catalog—	17149
USSR study—	16600	Culture media, <i>see</i> Bacteria and bac-	
kinetics of crystallization processes		teriology.	
of solutions and melts, USSR		Cumberland County, Tenn.:	
study—	16598	Cumberland State Park lands, re-	
spontaneous formation of centers		move restrictions on use—	
in undercooled melt in ultra-		hearing—	14328
sonic field, USSR study—	16611	law—	14076
<i>see also</i> Crystals—Polymorphism.		reports—	8846, 14293
Crystallography (USSR periodical),		economic improvement through for-	
abstracts—	10792	est utilization and develop-	
Crystals:		ment—	8257
acicular, effect of ultrasound upon		Cumberland Gap National Historical	
phenomenon of orthotropism—	12962	Park, general information—	8121
anomalous mixed, mechanisms in		Cumberland Plateau, forest develop-	
formation during crystallation,		ment—	4108
USSR study—	10345	Cumberland River and Valley, surface	
catalog of technical reports—	5664-65,	water supply of basin, 1957—	6299
7168		Curculionidae, <i>see</i> Apion.	
closing-up of cracks, etc., USSR		Curko, Ivan, relief—	14376
studies—	10346	Currency, <i>see</i> Money.	
exitonic state of molecular crystal		Current discharge at selected stations	
containing different molecules,		in Pacific Northwest—	2658, 11197
USSR study—	4971	Current export bulletin—	2644, 11183
growth, problem of experimental		Current fishery statistics, C.F.S.	
verification, USSR study—	12964	series—	1634-36,
piezoelectric, growth and synthetic,		3491-92, 4846-47, 6180-87,	
catalog of technical reports,		7737-41, 9031-35, 10121-123,	
1932-59—	5665	12678-680, 14659-660, 16370-	
quartz, electronic grade—		371, 17425.	
minerals yearbook chapter—	15032	Current labor market conditions for	
production, etc., 1958—	10434	engineering, scientific, and	
quartz units stability, studies with		technical personnel—	2499, 11030
time—	13577	Current literature on venereal dis-	
thorium, application of elastic con-		ease—	2895
stants theory—	7145	Current wage developments, monthly.	
<i>see also</i> Crystallography.		Currents, <i>see</i> Electric currents—	2737
CS series—	3176,	Ocean currents.	
5667, 7169, 8429-32, 9678-83,		Curriculum:	
11763, 13818-822, 17274.		air transportation and management	
CSS, <i>see</i> Commodity Stabilization		courses in colleges and uni-	
Service.		versities, list—	1595
CTR series—	3173-75,	engineering, accredited by Engi-	
4341-42, 5663-66, 7168, 9675-		neers' Council for Professional	
77, 11762, 15444-446.		Development—	373
Cuba:		English language arts in American	
communist threat to U.S., hear-		high schools—	3413
ings—	12557, 16210	high school organization patterns	
economic developments—	7793	and graduation requirements	
living conditions—	466	in 50 large cities—	10077
preparing shipments to—	7798	practical nurses, guides for devel-	
shrimp conservation, convention—	17875	oping education—	8949
text—	12344	responsibilities of State depart-	
		ments of education—	3423

	Entry		Entry
Curriculum—Continued		Cylinders :	
State, guides for industrial arts, 1941-58.....	7667	circular, stiffened longitudinally by closely spaced Z-section stringers, compression tests.....	6757
Curvature (mathematics) :		cone, configurations at Mach number 6.86, aerodynamic characteristics, investigation.....	1027
convex longitudinal, effect on planing characteristics of surface without dead rise.....	5271	hollow, boundary-layer transition in supersonic flight as affected by Mach number, etc.....	5267
Curvilinear flight trajectories, see Trajectories.		molded of concrete, compressive strength, investigation.....	16275
Cushioning materials :		sandwich construction, finite length under uniform external lateral pressure buckling, design curves.....	14715
design criteria, investigation.....	11693	unstiffened circular, subjected to bending at elevated temperatures, determination and static strength and creep buckling.....	10505
package—		yawed infinite, laminar heat transfer rates in supersonic flow, theoretical investigation.....	13416
dynamic tester for evaluating, theory and operation.....	7122	Cylindrical reactors, see Reactors (atomic).	
testing, FPL dynamic compression testing equipment.....	488	Cypress, planting methods, survival and growth in Mississippi Delta.....	499
Custer Battlefield National Monument, general information.....	8122	Cyprus :	
Custer County, S. Dak., beryl deposits of Beecher no. 3-Black Mountain pegmatite.....	16460	economic developments, 1958.....	7775
Custis-Lee Mansion :		sending gift packages to.....	16405
Arlington National Cemetery, extend grounds—		Cysteine, use in protection against X-ray action, USSR studies.....	5103
law.....	14025	Cytochemistry, thiol groups in sensory and motor neurons, USSR study.....	17654
reports.....	8651, 12501	Cytology, see Cells.	
Custodians, Government buildings, contracts for custodial services with private concerns, report.....	6009	Cytology journal, USSR ( periodical ) : articles.....	13201
Customs, see Tariff.		Czechoslovakia :	
Customs and religion of the Ch'ang.....	1172	Academy of Sciences—	
Customs Bureau, employees claims for overtime pay, report.....	16074	conference on problem of organ and tissue transplantation.....	7798
Customs Court :		organization, publications, etc.....	677, 716
appoint employees—		agricultural economies, notes.....	16396
law.....	15623	Central Administration of Geodesy and Cartography, long-range perspective of scientific work.....	5028
reports.....	12397, 15795	chemical industry.....	664
cases adjudged—		claims against, excerpts from international claims settlement act of 1949.....	449
Custom Court reports.....	6079	coals, coking qualities, investigation.....	613
Treasury decisions.....	2975, 11523	construction industry, planning and creation of prices.....	842
Customs districts, code classification, schedule D, changes.....	8461	Czechoslovak Academy of Agricultural Sciences, functions, etc.....	747, 749
Customs Service, inspection stations at Cordoba Island, agreement with Mexico.....	17116	economic production units, organizational structure.....	1754
Cut Bank, Mont., railroad accident.....	16496	economic translations.....	6459, 6554
Cut corners with conveyors.....	1170	engineering production structure efficiency methods, improvement.....	801
Cutthroat trout, see Trout.		fluorite mining, increasing labor productivity.....	615
Cuttings, see Reproduction.		higher schools, scientific research work and their implementation, plans.....	3716
Cuyahoga County, Ohio, relief.....	14179	legal abstracts.....	681, 14867
Cuyuna Range, manganeseiferous iron formations, core-drill sampling.....	6665	liberated, ten years development of mathematics.....	621
CW, see Chemical warfare.		machine building industry—	
CWL special publication.....	4364	planning and fixing prices, problems.....	1869
Cyanide, solutions, extraction of gold by ion-exchange resins, USSR study.....	17587	specialization.....	859
Cybernetics :		meteorology, history.....	849
combined systems, elements of general theory.....	12951	parcel operation, report.....	15972
development, experiments, etc., USSR report.....	9181	pediatrics in past.....	3684
in neurology, USSR study.....	14930	planning of costs and profit formation.....	1914
in psychiatry, problems, USSR study.....	14931	political and sociological translations.....	3656
principles.....	14814		
relations to peculiarities and problems of living organisms, USSR studies.....	6470		
technical, homing as problem.....	13755		
use in surgery, USSR study.....	12836		
Cyclones :			
analysis of 2 cases of cyclo- and anticyclo-genesis, USSR study.....	12977		
displacement to cold regions, USSR research.....	1900		
evolution, temperature, and jet streams interrelationship, USSR studies.....	1951		
movement, problem, USSR studies.....	1946		
orographic cyclone genesis, USSR study.....	5116		
Cylinder pressmen, see Pressmen.			

# INDEX, 1959

	Entry
Czechoslovakia—Continued	
prefabricated brick blocks use in building.....	606
provincial press summary.....	1835
5097, 6475, 10287, 10305, 12996, 13014, 13099, 13111, 13123, 13166, 13169, 16564, 16577, 17602.	
research and scientific institutes, activities, etc.....	731-732
scientific research, balance equation and its use in numerical forecasting of baric fields.....	3723
selected economic translations.....	727
730, 753, 777, 780, 1831, 1833, 1837, 5057-58, 5064, 5066, 6474, 6504-5, 6574, 10283, 10293, 10300, 13003, 13037, 13048, 13080-81, 13113, 13128-129, 13154, 13175, 13200, 13228, 14879, 14896, 14901, 14907, 16570, 16583, 17597, 17608.	
selected political and sociological translations.....	1758, 4985, 4997
selected sociological translations.....	6375, 12811, 12821, 17560
sending gift packages to.....	14682
statistical yearbook, 1958, translation and glossary.....	12891
10 years of meteorological bulletin.....	848
United States exchange programs.....	16203

## D

D.C. Transit System, Inc.:	
operation of mass transportation of passenger, for hire, effective regulation, hearing.....	14556
regulation of operation—	
hearings.....	15950
report.....	15926
D.H.I.A., see Dairy-herd-improvement association.	
D.O.F.L., see Diamond Ordnance Fuze Laboratories.	
Dade County, Fla.:	
metropolitan government, Federal-State-local relations, hearings, migratory farm labor housing survey.....	309
Dade County, Ga., forest inventory statistics.....	5443
D'Agostino, Mary, relief.....	8555, 16037
Daily:	

NOTE.—For all publications which begin with the word "Daily", see subject.

Dairy cattle, see Cattle—Cows.	
Dairy-herd-improvement associations, national cooperative program.....	1305, 2274, 10726
Dairy industry, see Dairying.	
Dairy products:	
consumption patterns with indications of analytical uses.....	17170
distribution, price discrimination—	
report.....	1535
report, additional copies, report—	7370
export, amend agricultural trade development and assistance act of 1954, hearing.....	14325
Federal and State standards.....	15300
foreign trade prospects.....	3521
manufactured, production, 1958.....	13700
manufactured or processed, grading and inspection regulations.....	11586
market statistics, 1958.....	8340
marketing margins.....	5481
milk concentrates, effect on New England industry (address).....	4150
outlook for 1959 (statement).....	1265
plants manufacturing, 1957.....	4141
sold under trade development assistance act, restrict use, hearings.....	12273

	Entry
Dairy products—Continued	
standard specifications for veterans hospitals, etc.....	4118
statistics of dairy plant products, 1958.....	4146
see Milk—also names of products.	
Dairy stalls for artificial breeding.....	7064
Dairy wastes, see Waste products.	
Dairying:	
cooperatives, use of multi-quart containers.....	3434
dairy situation (periodical).....	2199, 10656
economics handbook.....	78
equipment and methods in Southeast.....	99
foreign agriculture circulars.....	2643, 11182
incipient monopoly in milk distribution, case study, report, additional copies, report.....	14278
industry, foreign investments abroad, development address.....	270
monopoly in milk distribution, case study, report.....	6069
National cooperative improvement program.....	2274, 10726
program (talk).....	75
publications, price list.....	9461
recordkeeping as a basis for improving herds and efficiency of operations.....	53
small business problems—	
hearings.....	12314, 15970
report.....	12210
statistics, supplement for 1958.....	8336
see also Dairy products.	
Dairymen's League Cooperative Association, Young Cooperators, proving ground for future.....	6113
Dallas, Tex.:	
electric facilities of area, map.....	16340
occupational wage survey—	
departmental edition.....	5170
document edition.....	4431
standard metropolitan area, housing inventory characteristics, 1956.....	5705
The Dallas Dam:	
Memaloose Island set aside for project—	
law.....	11959
reports.....	7386, 8839
Daly City, Calif., population, special census.....	11807
Damage controlman, 1&C, Navy training courses.....	3981
Damages, damage control, Ships Bureau manual.....	4051
see also Claims.	
D'Amello, Maria S., relief.....	4537, 7288, 7509
Damion, Sister Mary, see D'Amello, Maria S.	
Damping:	
artificial pitch, effect on longitudinal and rolling stability of aircraft with negative static margins.....	9378
capacity, its measurement and significance.....	6663
derivatives at angles of attack, 0° to 90° for model with low-aspect-ratio unswept wing.....	5269
lateral oscillatory, acceptable for airplane in landing approach.....	16846
low amplitude—	
in-pitch characteristics of 4 tailless swept wing-body combinations.....	1043
in yaw, wind-tunnel investigation of fuselage-tail configuration at Mach numbers up to 1.10.....	16846
oscillatory waves by laminar boundary layers.....	17387

	Entry		Entry
Damping—Continued		Dealers :	
pitch, derivatives, summary of		glass, dual distribution methods of	
complete airplane and missile		producers, and competitive	
configurations as measured in		problems, hearings.....	3398
flight at transonic and super-		livestock, how packers and stock-	
sonic speeds.....	3909	yards act applies.....	13679
stability, control at low-subsonic		poultry, national improvement	
measurements at angles of at-		plan, participation.....	3036
tack from 10° to 90°.....	13434	supplements.....	3037, 5508, 8294
theory.....	13512	reserve income tax treatment, tran-	
transonic damping-in-pitch charac-		sitional provisions, report.....	15912
teristics of 2 wing-body com-		scrap-steel, technological and com-	
binations.....	1085	petitive problems—	
variations and control power, ef-		hearing.....	16227
fects on helicopter handling		report.....	17348
qualities during both instrum-		views.....	17348
ent and visual flight.....	17738	subject to certain sections of title	
Dams :		1. National housing act, list.....	4815
construction, historical and archeo-		tobacco products regulations.....	6327
logical data, preservation, re-		turkeys, national improvement	
port.....	8864	plan, participants, 1959.....	4155
dams for reclamation.....	1158	supplements.....	5509-10, 8295
reservoir, construction and water		Death :	
conservation developments in		causes—	
China in 1958.....	9160	by color and sex, United States,	
spillway and outlet works, hydrau-		1957, national summaries.....	5332
lic model, investigation.....	8972	leading, United States, Puerto	
TVA, visitors are welcome.....	15232	Rico, Virgin Islands, 1957, na-	
see also names of dams or bodies		tional summaries.....	8117
of water.		mortality from selected causes,	
Danby Dry Lake, core logs, geologic		United States, Puerto Rico,	
investigations.....	6283	Virgin Islands, 1957.....	6824
Danger areas, Pacific Ocean danger		new born, clinical analysis, Mol-	
areas, DAPAC.....	14768	davian, SSR.....	14858
Daniels, Julia S., relief.....	4502, 15069, 16039	statistics, USSR populace.....	10331
Danube River, ice conditions.....	828	childhood, role of pediatric science	
Daoud-Gebran, Taufic, and wife, re-		in reduction, USSR study.....	14928
lief.....	8786	infants, United States, etc., 1957,	
DAPAC messages, danger areas in		national summaries.....	16950
Pacific.....	14768	maternal, United States, etc., 1957,	
Dark adaptation, information, USSR		morbidity and mortality weekly	
study.....	17514	report.....	2857, 11398
Data, see subjects.		mortality data, United States and	
Data processing, see Electronic data		each State, Alaska, etc., 1957,	
processing systems.		national summaries.....	10522
Dates (fruit) :		mortality from each cause, 1955-	
production, use, value, 1957-58....	13688	57, United States.....	3968
Da Veiga, Clarinda, relief.....	4686	mortality from selected causes,	
David W. Taylor Model Basin, report.....	8213	1957, by age, race, and sex.....	8118
Davidof Island, geology.....	9114	mortality from tuberculosis, 1956....	4028
Davis, James J., papers in Library of		mortality rate shifts in USSR and	
Congress, register.....	908	capitalist countries.....	12956
Davis Stralt, sailing directions.....	6308	mortality statistics, United States,	
Dawd, Taufic G., see Daoud-Gebran,		1957.....	9411
Taufic, and wife.		Pennsylvania anthracite mines,	
Day in a day school.....	12780	1958.....	8026
Days, see names of special days.		perinatal, infant, childhood, and	
Daytona Beach, Fla., Solar Research		maternal mortality, statistics.....	15492
Station, sea water conversion.....	16486	rates for selected causes, 1949-51,	
DDT :		by age, color, and sex—	
control of mosquitoes on your prop-		accidents.....	15109-110
erty.....	15311	all causes.....	3960
20 percent solution, aerial spray-		anemias.....	8110
ing results in eliminating in-		appendicitis.....	13480
sects in forests.....	832	arteriosclerosis, general.....	13473
Dead reckoning computers, Air Force		arteriosclerotic heart disease.....	15101
manual.....	11664	benign neoplasms.....	6822
Deaf :		bronchitis.....	13479
children practically without hear-		cardiovascular-renal diseases.....	8112
ing, methods of fixing speech		chronic nephritis.....	13475
habits, USSR study.....	17635	chronic rheumatic heart disease.....	15100
handicapped children, preparation		cirrhosis of liver.....	13481
of better-trained personnel to		complications of pregnancy,	
work with them in schools.....	3415	childbirth, and puerperium.....	15107
service-connected disability of deaf-		congenital malformations.....	13484
ness of both ears, additional		diabetes mellitus.....	6823
compensation to veterans, re-		diphtheria.....	5328
port.....	9830	diseases of cardiovascular sys-	
vascular reactions, sensitivity of		tem.....	8113
acoustic analyzer by registra-		diseases of circulatory system.....	13474
tion.....	7931	diseases of heart.....	8116
Deafness, see Deaf.		dysentery, all forms.....	3966
		gastritis, duodenitis, enteritis,	
		and colitis.....	15106
		heart diseases.....	13471



# INDEX, 1959

Entry	Entry
Death—Continued	Decay (timber)—Continued
rates for selected causes, etc.—con.	evaluation of wood decay in ex-
hernia and intestinal obstruc-	perimental work..... 6248
tion..... 15105	in trees, publications list..... 10171
homicide..... 13486	southern bottom-land hardwoods
hyperplasia of prostate..... 13483	after fire injury..... 3082
hypertension with heart disease..... 15103	untreated wood, factors that influ-
hypertension without mention of	ence and decay resistance of
heart..... 13472	different species..... 4902
influenza..... 13477	white pine, symptoms of abnormal
influenza and pneumonia..... 13476	crown deterioration..... 12737
leukemia and aleukemia..... 6820	Deception, <i>see</i> Camouflage.
lymphosarcoma and other neo-	Deciduous fruits, <i>see</i> Fruit.
plasms of lymphatic and he-	Decimal classification, <i>see</i> Classifica-
matopoietic tissues..... 6821	tion.
malaria..... 10515	Decisionmaking:
malignant neoplasms..... 10516	index, use in assigning Air Force
breast..... 10520	personnel..... 8369
buccal cavity and pharynx..... 10517	policy decisions on airman person-
digestive organs and perito-	nel system, method for esti-
neum..... 10518	imating effects..... 9647
genital organs..... 10521	Decisions:
other and unspecified sites..... 6819	Higher Certification Commission on
respiratory system..... 10519	Scientific Ranks and Titles
urinary organs..... 6818	(USSR)..... 695-697, 744-745,
measles..... 10513	1841-42
meningococcal infections..... 5330	quality of decisionmaking in busi-
motor-vehicle accidents..... 13485	ness and economic affairs (ad-
nephritis, acute and with edema..... 13482	dress)..... 4827
nonmeningococcal meningitis..... 8111	<i>see also</i> names of courts, etc., rend-
nonrheumatic chronic endocardit-	ering decisions— <i>also</i> subjects.
is and other myocardial de-	Decker, Forrest E., relief..... 7357
generation..... 15102	Declaration of Independence:
pneumonia..... 13478	our Constitution and Government,
pollomyelitis..... 5331	Federal textbook..... 6315
rheumatic fever..... 8115	text..... 4669
scarlet fever and streptococcal	Declination, tables for air naviga-
sore throat..... 3967	tion..... 1724, 4942
suicide..... 15111	Decomposition, thermal, metal alkyls..... 6721
symptoms, senility, and ill-de-	Decontamination apparatus, vaporat-
fined conditions..... 15108	or, device for measuring CW-
syphilis and its sequelae..... 3964	contaminated surfaces..... 17806
title page and contents..... 16955	Decorations of honor:
typhus and other rickettsial dis-	Armed Forces decorations and
eases..... 10514	awards (poster)..... 12586
tuberculosis..... 3961-63	foreign, acceptance by retired Army
typhoid fever..... 3965	generals..... 11943, 12052, 12366
ulcer of stomach and duodenum..... 15104	Navy and Marine Corps awards
vascular lesions affecting central	manual..... 6852
nervous system..... 8114	<i>see also</i> names of decorations or
whooping cough..... 5329	persons to whom presented.
Death certificates:	Deer:
District of Columbia, amend laws	Hickory Run deer enclosure—
relating to fees for trans-	description..... 17459
cripts—	history, etc..... 17467
law..... 14033	relationships between deer and for-
reports..... 12258, 12414	est management..... 1689
Death duty, <i>see</i> Inheritance and	Defectoscope, ultrasonic, use in sani-
transfer tax.	tary evaluation of food prod-
Debarking (wood), <i>see</i> Bark.	ucts, USSR studies..... 3721
Debts, <i>see</i> Banks and banking.	Defenders, Public, <i>see</i> Public defend-
Debt:	ers.
discharge, release bankrupt, amend	Defense, <i>see</i> Civilian defense—Nation-
bankruptcy act, hearings..... 335	al defense.
dischargeability, determination by	Defense and Civilian Mobilization Of-
bankruptcy court, report..... 15883	fice releases..... 2395
home mortgages and financing ac-	Defense contracts, <i>see</i> Government
tivity..... 2539, 11075	contracts.
money supply and debt manage-	Defense Department:
ment in relationship to eco-	active standardization projects..... 4755
nomie conditions, hearings..... 15754,	additional administrative, scientific
17317	research, etc., positions—
<i>see also</i> Public debt.	hearings..... 8745, 12565
Decaborane Grignard reagents and	law..... 15741
formation of substituted deca-	reports..... 12125, 14536
boranes..... 8161	appropriations, 1960—
Decatur County, Tenn., forest inven-	hearings..... 5910, 7446, 8719, 10024
tory statistics..... 10618	laws..... 14021, 15640
Decay (radioactive):	military construction—
fission products decay energy, lit-	hearings..... 14548
erature search..... 15421	reports..... 12262, 14317, 14514
Yb-169, nuclear energy levels and	proposed provision..... 12337
metastable states..... 15403	reports..... 8672, 10019, 12238
Decay (timber):	supplemental, proposal..... 5816
beetle-killed Engelmann spruce..... 12750	

# JANUARY-DECEMBER

	Entry		Entry
Defense Department—Continued		Defense Department—Continued	
budget, 1960—		subcontracting, small business participation—	
amendments—	5816	hearings—	10057
Budget Bureau's role in formulation, etc., hearings—	10031	report—	14496
military, hearings—	7604	supply functions, single manager plan, report—	12172
cataloging handbook, H series—	348-350, 2484-90, 3405, 4759, 6083	Defense facilities, <i>see</i> Plants (industrial).	
6086, 8918-20, 11016-21, 12577, 14584		Defense Lending Office, audit report, 1958—	12042
cataloging manual M (series)—	16237	Defense Mobilization Office, <i>see</i> Civil and Defense Mobilization Office.	
comments on mutual security program—	7466	Defense mobilization orders—	2391
construction appropriations, 1960, reports—	8810, 12224	Defense production act, <i>see</i> Production.	
director of defense research engineering nomination of Herbert F. York, hearings—	7606	Defense Production Joint Committee: annual report—	3346
DOD pamphlets—	3131-32, 4280-81, 5614, 7126, 8378, 9048, 11694, 15372	hearing, etc.—	15752, 17315
engineering drawings, preparation of associated lists, military standard—	12580	Deflection: blade torsional of supersonic-type propellers, measurement and calculation—	1033
establish standards for atomic weapons, etc., hearings—	14101	compass needle—	1617
functions, transfer, hearings—	7618, 10044	Yankee core support structure model, analysis—	5652
general counsel, nomination of J. Vincent Burke, Jr., hearing—	16193	Defectors: spoiler-slot—	
industrial readiness planning program, register of planned emergency procedures—	17366	configuration on 35° sweepback wing, investigation at high subsonic speeds lateral control, etc.—	16848
information availability—		on tapered 45° sweepback wing, low-speed investigation of high-lift lateral control device—	1061
hearings—	1547, 9909	Defoliants: include in Federal insecticide, fungicide, and rodenticide act—	
report—	5873	hearing—	12270
lumber and allied products handbook—	354	law—	14002
military construction authorization, report—	10007	reports—	9854, 12438
military handbooks—	354-355, 17371	Deformation (mechanics), <i>see</i> Plasticity.	
military posture briefing, hearing—	4645	Deformation modes of zirconium at 77° K, 300° K, 575° K, and 1075° K—	17257
military standards—	1583-88, 3409, 4763-69, 6088-89, 7660-61, 8925-27, 10060-67, 12579-585, 14588, 16241-248	Deformities, congenital malformations, death rates by age, color, and sex, 1949-51—	13484
military supply, single manager plan, hearings—	12290	Degrees (colleges, universities, etc.): bachelor's, social science requirements—	3416
miscellaneous real estate projects report, hearings—	9900	earned, conferred, 1957-58 by higher educational institutions—	12592
personnel, dependents schools overseas, salaries and personnel practices for teachers—		engineering, 1958—	12591
hearing—	7478	master of arts in education from D.C. Teachers College, conferring—	
law—	11978	law—	15663
reports—	7423, 7542	report—	16138
posters, DOD-P series—	12586	Degtyarka, USSR, ore, bulk selective flotation, laboratory tests—	646
prescribe standards for access to classified information by defense contractors, report—	15877	Dehydrated foods, <i>see</i> names or classes of foods dehydrated.	
procurement, small business participation, report—	1565	Dehydrofreezing, innovation in food distribution—	5490
procurement program, etc., investigation—		Dehydrogenation: hydrocarbons in presence of aluminum-chromium-potassium catalyst, USSR studies—	3792
authorization, report—	3291	n-hexane, under conditions of aromatization, temperature and volume rate effect, USSR studies—	1910
expenses, report—	3302	Delaney, Sophronia S., and sons: real property conveyance—	
hearings—	17330	hearings—	8875, 14328
procurement regulations, etc., hearings—	1544	law—	13972
provisioning technical documentation seminars—	4761	reports—	9944, 14186
public works projects moving costs of tenants, extend time for filing applications—		Delarof Islands, geology—	7844
law—	15682	Delaware: census of governments, 1957, State bulletin—	11779
reports—	8655, 14492		
report of Assistant Secretary of Defense (Health and Medical), July 1, 1956-June 30, 1958—	8923		
scientific and astronautic research, report—	15923		
Secretary to establish NSA positions and fix compensation—			
law—	8521		
reports—	5870, 5885, 7588		
semiannual report—	7662		
standardization projects report—	11023		

# INDEX, 1959

Entry	Entry
Delaware—Continued	Dentistry:
climatological data..... 2993, 11546	administrative and technical pro-
employment and earnings statistics, 136	cedures, Air Force manual.....
guide..... 7982	conference of State and territorial
mineral industry, minerals year- 15005	directors with P.H.S. and Child-
book chapter.....	ren's Bureau, 1959 proceed-
oyster industry, assistance to, re- 17048	ings.....
port..... 16169	dental health stamp dedication
plane coordinate intersection 17014	(address).....
tables..... 11849	Nevada State Dental Society
precipitation data, hourly..... 2996, 11549	budget payment plan..... 5381
timber resources..... 7840	practice in D.C., amend act—
women, legal status..... 17162	law..... 11985
Delaware (U.S.S.):	reports..... 7409, 10015
cruise in Brazilian waters, 1841-42,	prepaid dental care, glossary of
journal of Daniel N. Johnson..... 6934	terms..... 17057
Delaware and Hudson RR., accident, 10206	public assistance program of Wash-
Delaware River, channel, enlargement 17039	ington State Dental Service
effects, model study, appendix.....	Corporation, report.....
Delegates, see House of Representa- 17038	St. Louis Labor Health Institute,
tives.....	dental care in group purchase
Delinquent children, see Juvenile de- 15169	plan.....
linquency.....	work among Indians by PIHS.....
Del Rosario, Magdaleno V., relief..... 12375	see also Endodontics.
Delta-Mendota Canal, design and con- 15176	Dentists:
struction, technical record.....	health manpower source books..... 15167
Delta National Wildlife Refuge, 14671	military service, extend act—
birds.....	hearings..... 3318, 4735
Delta Point, La.:	reports..... 3313, 4546, 4729
bridge across Mississippi River, re- 14046	Denver, Colo.:
peal act authorizing—	Federal-State-local relations, hear-
law..... 9866	ings..... 3327
report.....	occupational wage survey—
Delta wings, see Wings (aircraft).	departmental edition..... 5172
Demand, see Supply and demand.	document edition..... 4433
Denim, N. Mex., manganese-ore-pur- 13363	Denver & Rio Grande Western RR.,
chasing depots operations.....	accidents..... 6342, 7884
Demi, Paula, relief..... 12349, 13984, 14148	Denver County, Colo.:
Demyelination of central nerve fi- 14925	property adjacent to Rocky Moun-
bers produced by total action 16104	tain Arsenal, quiet title and
of ionizing radiation on animal- 15683	possession.....
organisms, USSR.....	law..... 15822,
Denaturalization, see Citizenship.	reports..... 16104
Dendroctonus brevicornis, see Beetles.	Department of Science and Technol-
Denial and probation orders affect- 17436	ogy Commission, see Science
ing export privileges.....	and Technology Department
Denmark:	Commission.
economic developments, 1958..... 6224	Department stores, see Stores.
mutual defense assistance agree- 10605	Dependent children, see Children.
ment.....	Dependents, see Air Force—Armed
sending gift packages to..... 17438	Forces — Army Pensions —
Densitometers, X-ray film, nonde- 5648	Veterans.
structive method for quantita- 8685	Deportation:
tive determination of uranium 8685	and exclusion orders, judicial re-
loading of aluminum-clad fuel 15999	view—
plates.....	report..... 8685
Dental care, see Dentistry.	views.....
Dental caries, see Teeth.	cases suspended..... 6031, 8610, 9814,
Dental clinics, approved special medi- 15999	communists, investigation, Pitts-
cal administrative systems and 8758	burgh, Pa., area, hearings.....
services, Air Force pamphlet..... 5594	suspension rescissions—
Dental instruments and apparatus:	Pires, Eduardo..... 7534, 8611
Federal supply schedule..... 17419	Poblet, Jose..... 7536, 8613
maintenance and repair handbook, 6845	Zepeda, Garcia de, Eva..... 7535, 8612
Navy training course.....	Deposit Insurance:
Dental laboratory technicians' man- 5585	Federal Deposit Insurance Corpora-
ual.....	tion, operations—
Dental materials, see Dental supplies.	report..... 14620
Dental Research National Institute, 4811	25th anniversary review.....
see National Institute of Den- 16228	Depots, see Military depots—Storage.
tal Research.	Depreciation, capital equipment, tax
Dental supplies:	allowance policies, effects on
Federal Item Identification guides 16632	small business, hearing.....
for supply cataloging..... 350	Depth psychology and psychiatry,
Federal supply schedules..... 409, 17420	USSR.....
see also names or types of supplies.	Deputy Comptroller of Currency, see
Dental technicians:	Comptroller of Currency.
dental laboratory technicians' man- 5585	Derlabian, Petr S., testimony, hear-
ual, Air Force Manual.....	ings..... 5936, 7634
Navy training courses..... 6845	Dermatoses, see Skin diseases.
prosthetic, Navy training courses..... 10530	Deryabin, Peter S., relief..... 8620, 12369,
Dentifrices, false and misleading ad- 13914	Desalting of sea water, see Sea water.
vertising, hearings..... 1548	Deschutes County, Oreg., soil survey
	report..... 9499

# JANUARY-DECEMBER

	Entry		Entry
Desegregation in education, <i>see</i> Race problems.		Detroit, Mich.—Continued	
Desert lands, pitting for range improvement	112	standard metropolitan area, housing inventory characteristics, 1956	5706
Desiccants:		teamster's union, local 985, improper activities investigation, hearings	17354
include in Federal insecticide, fungicide, and rodenticide act—		Dettmers, Arthur J., jr., relief	4487, 11928
hearing	12270	De Ullmann, Peter F., relief	12107, 15580, 16018
law	14002		
reports	9854, 12438	Deuterium:	
Designs (aircraft):		exchange studies with dibutyl phosphorate	5348
ARDC production design handbook	13748	polarization of neutrons from D(d,n) He <sup>3</sup> reaction	15398
USSR, notes of aviation designer	850	transport through metals	16985
Designs (architectural), <i>see</i> Architecture.		Development (economics), <i>see</i> Economic policy.	
Designs (industrial):		Development assistance, <i>see</i> Foreign aid.	
Chinese refractory plant with daily output of 2 tons of ceramics	12906	Development Loan Fund:	
coastal small-harbor passenger-cargo ships	3658	appropriations, 1959, supplemental, message from the President	4469
effect upon shock spectra of dynamic reaction of structures	5344	appropriations, 1960, proposal	12048
job descriptions, training, etc.	17375	appropriations, 1961, proposal	12048
Designs (patents):		draft legislation—	
examiner, examination announcement	3231	hearings	7465, 8733
in official gazette	2873, 11412	hearings, index	8733
Desorption, dynamics with porous absorbents, USSR study	9265	mutual security act of 1958—	
De Soto National Memorial, land acquisition, report	8862A	report	9994
Desoxyribonucleic acid:		views	9994
change in physico-chemical properties in tissues of irradiated animals, USSR studies	5104	use of Chinese currency repayments, agreement with China	6954
DRN activity in urine following radiation sickness, USSR study	14856	Devices:	
luminescence of DNA isolated from tissues of irradiated animals, USSR study	13256	auditory examination of encephalogram and other biological currents (encephalophone), in USSR	1812
Des Plaines, Ill., population, special census	209	control, preventing bird damage to crops	14680
Des Plaines Public Hunting and Refuge area, conveyance to Illinois, reports	7617, 12466	payload lowering from high-altitude balloons	149
Destroyers (warships):		severing by tearing and breaking	5369
loan to Germany, agreement	1206	Devon, Conn., railroad accident	6339
loan to Japan, agreement	6957	Dewey decimal classification	3830
loan to Republic of China, extend—		DeWinter, Louis J., and wife, relief	7360A, 12389, 13934
hearing	12525	DGFK, <i>see</i> German Cartographic Society.	
law	11958	DHIA, <i>see</i> Dairy-herd-improvement associations.	
reports	4600, 8819	Diabetes, death rates by age, color, and sex, 1949-51	6823
Detective agencies:		Diagnosis, <i>see</i> names of diseases.	
misuse of names, emblems, and insignia to indicate Federal agency, amend U.S. Code—		Dial telephone, <i>see</i> Telephone.	
law	15656	Diamond abrasives, use in metallographic problems	5365
reports	5990, 12265	Diamond Ordnance Fuze Laboratories:	
Detectors (radio communication):		technical reports	5364, 12532
portable field unit, ILS glide slope facilities, CAA specification	233	technical review	2872
Detergents, <i>see</i> Cleaning compounds.		Diamonds:	
Deterioration, log deck, techniques for evaluating conditions	12732	crystal enclosed in kimberlite rocks, Udachnaya pipe, Yakut ASSR.	1801
Determinism and teleology, USSR study	16616	disposal from national stockpile by GSA, reports	12178, 14538
Detonations:		geology of Siberian diamond-bearing province	642
nuclear, underground—		occurrence in European part of USSR	644
grouting methods, technical consulting service	8416	Diatomaceous earth:	
temperature measuring experiments for Rainier shot	3170	minerals yearbook chapter	14993
<i>see also</i> Nuclear explosions.		production, etc., 1958	8041
Detonators, caps, electric, blasting, Federal supply schedule	1629	pneumoconiosis in mining and processing	2114
Detroit, Mich.:		Diatomite, <i>see</i> Diatomaceous earth.	
electric facilities of area, map	16336	Diaz Lanz, Pedro L., testimony	12537
occupational wage survey—		Dibutyl phosphates, <i>see</i> Butyl phosphates.	
departmental edition	9286		
document edition	8530		
post office, dedication of ground (address)	6890		



# INDEX, 1959

	Entry		Entry
Dicarboxylic acids in alkyd resins and polyesters, rapid identification technique.....	5363	Diffusers—Continued	
Dickens, Sallie B., relief.....	8569, 11939, 12363	subsonic—	
Dickey, J. C., relief.....	4517, 5981, 7291	improving total pressure profiles for side-inlet model at Mach. number 1.91, methods evaluation.....	5242
Dickey, Leon O., relief.....	7343, 9968, 11930	Mach number as supersonic-inlet control parameter.....	16793
Dickinson Dam : reservoir formed, designate Edward Arthur Patterson Lake—		Mach number distributions, investigation.....	1028
law.....	14040	use of short flat vanes for producing.....	1091
reports.....	6033, 12232	subsonic and supersonic, internal boundary layer-control on side-inlet at Mach number 2.96, investigation.....	5236
Dicorynia gulanensis, <i>see</i> Angelique.		supersonic—	
Dictionaries :		air inlet, pressure recovery at Mach numbers between 1.42 and 2.44.....	16753
Federal supply schedule.....	417	inlet design concept to reduce flow distortion at angle of attack.....	3904
Navajo-English.....	531	preliminary investigations at high Mach numbers.....	16769
Dictionary stands, wood, Federal standard.....	16353	2-dimensional, observations of flow at throat.....	967
Die castings, zinc-base, emission spectrographic method for analysis.....	6884	Diffusion :	
Dielectrics :		atmospheric, shape parameters, alignment charts.....	189
dielectric constant and electrical resistivity of natural-state cores.....	7847	bonding, fundamentals, progress report.....	15417
heat-resistant organosilicate insulating materials.....	9252	gas, concentration data analyses, sampler spacing effects.....	5598
measurement of constant prototype model of automatic X-band microwave impedance recorder.....	13509	nine-group equations for cylindrical reactors, computer program for solving, analysis and discussion.....	3943
physics, papers given at all-union conference, USSR.....	5145	precipitation, staphylococcus toxin, USSR studies.....	5099
polyethylene strength at high frequencies, USSR study.....	6494	rediffusing broadcasting receiver networks technique.....	833
supplement.....	7932	steels and alloys at elevated temperatures, effect of ultrasound, USSR studies.....	1925
Dienocephalon, <i>see</i> Brain.		tracer gas over range of 800 meters, techniques and meteorological equipment used in field program.....	17224
Diesel engines :		turbulent horizontal, admixture spots in sea, calculation, USSR.....	5151
Chinese, standardization tables.....	6553	Digestive organs, malignant neoplasms, death rates by age, color, and sex, 1949-51.....	10518
multifuel, final report.....	17140	Digestive system, cancer of digestive tract.....	8191
parts, Federal supply schedule.....	6170	Digests, <i>see</i> names of departments, etc., issuing digests—also sub-jects.	
starting at low temperatures, problems and remedies.....	14597	Digital computers, <i>see</i> Electronic computers.	
transition from steam traction on PKP, modernizing problems.....	1775	Digital start-up control for aircraft reactors.....	15414
use in motor vehicles, economic efficiency, USSR study.....	9205	Dihedral angle, influence on heat transfer to leading edges of highly swept wings at high Mach numbers.....	6782
Diesters, diabasic acid, preparation, etc., for improved thermal and hydrolytic stability.....	11692	Dihydroperfluorobutyl acrylate, polymerization, compounding recipes and evaluation data.....	3124
Diet :		Dillon, C. Douglas : nomination, hearing.....	7612
fish value in reference to atherosclerosis and current research.....	424	statement.....	6059
hormones and atherosclerosis, review of research grants.....	5316	Dimension stone, <i>see</i> Stone.	
low-sodium, suitable processed fishery products available.....	10128	Dimethylhydrazine, thermal stability.....	2050
Dieticians :		Dingell-Johnson quarterly.....	2610, 11148
Medical Corps, Army, pay and retirement, Reserve credit for service—		Dining cars :	
hearings.....	4637, 14549	operation of food and drink service facilities, sanitation handbook.....	13561
law.....	14052	railroad, construction, sanitation handbook.....	13562
reports.....	4588, 4606, 14504	Diphenyl, vibration spectra, USSR study.....	16540
Dietrich, Peter E., relief.....	5949, 7346		
Differential thermal analysis, Nicaro, Cuba, nickel ores, in controlled atmospheres.....	13375		
Diffraction, X-rays, powder patterns.....	6800		
Diffusers :			
classification bulletin.....	8166		
comparison of effect of turbojet engines and 3 cold-flow configurations on stability of inlet.....	3902		
diffuser-exit total-pressure profiles for side-inlet model at Mach no. 3.05, methods of improving, investigation.....	6710		
expanded duct sections and screens for reducing flow distortions at subsonic flows.....	9363		
pressure recovery, ram-jet engines free-flight performance.....	3890		
screens for removing distortions in ducted flows at high subsonic speeds.....	6750		

# JANUARY-DECEMBER

	Entry		Entry
Diphtheria:		Directories—Continued	
death rates by age, color, and sex,		State and territorial health au-	
1949-51	5328	thorities, 1959	13559
experimental, in sensitized and im-		State departments of agriculture,	
munized guinea pigs, USSR		1959	5475
study	6490	telephone	
Diplomatic lists	2948, 11495	House of Representatives	4425
Diplomatic relations, see Interna-		Senate, 1959	4665
tional relations		urban renewal projects	11532
Dipole fields and normal modes in		voluntary and non-profit groups	
magnetic garnet	16990	and agencies interested in	
Diptera, see Flies		technical cooperation abroad	7876
Direction finders, see Radio direction		World Federation of Trade Unions	9146
finders		Disability days, United States, July	
Direction finding, see Radio direction		1957-June 1958	10568
finding		Disability insurance:	
Direction indicators, underwater ca-		financing, report of Advisory Coun-	
ble guidance system	6981	cil on Social Security Financ-	
Directional resistivity measurements		ing	4060
in exploration for uranium de-		hospitalization service for bene-	
posits on Colorado Plateau	16463	ficiaries, HEW Dept. report	8763
Directories:		if you become disabled, social secu-	
Agriculture Department, organiza-		rity benefits	1136, 9442
tion and field activities, 1959	1294	laws, temporary comparison, Dec.	
Air Force addresses, continental		1958	1600
US and Canada	3088, 4204	quarters of coverage, change rule	
Air Force film directory, manual	5583	for crediting report	15857
American women in radio and tele-		social security disability provi-	
vision, membership analysis	9555	sions, how disabled must you	
Business Research Advisory Coun-		be?	8159
cil, fiscal 1959	9295	State and local government em-	
civil and defense mobilization of-		ployees, general information	6874
ficials	5721	temporary, recession relation to	
change	13872	TDI claims in New York and	
commercial dealers in seeds and		California	10083
planting stock	12757	trust fund, facts	1138
Congress of United States—		Disabled:	
official edition, 86th Cong., 1st		benefits under social security act,	
sess.	4419	amendments of 1958 (in Span-	
pocket edition, 86th Cong.	3253	ish)	6935
education, 1957-58	367	health benefits program for re-	
higher education	367	tired Federal employees, hear-	
education, 1958-59	368, 1596, 4776, 16256	ing	16220
education associations	16256	Interviewing guides	8953
Federal government and States	1596	medical statistics, acute conditions,	
higher education, supp. 1	4776	United States, July 1957-June	
education, 1959-60	16257	1958	4021
higher education	16257	national health survey, impair-	
films, 16 mm film libraries	1592	ments by type, sex, age, statis-	
foreign advertising agencies and		tics, 1957-58	10567
marketing research organiza-		payments for seamen, transfer	
tion	7768	functions—	
health units, local	6911	law	14081
higher education—		reports	12464, 14296
1957-58, supp. 2	367	permanently and totally, State aid	
1958-59	368, 1596, 4776, 16256	under social security act	17821
1959-60	16257	police and firemen retirement act,	
Indian Affairs Bureau	2674, 11213	make applicable to former	
international mail, quarterly		members and their widows,	
changes	2876, 11415	widowers, and children—	
key audiovisual personnel in pub-		hearings	8727
lic schools and library sys-		reports	8637, 16164
tems	3422	social security benefits	10547
labor offices in United States and		see also Disability Insurance—Pen-	
Canada	16651	sions—Rehabilitation of the	
labor unions in U.S., 1957, addi-		disabled—Veterans.	
tions, etc.	7975	Disabled American Veterans, report,	
national, for use in marketing	17843	1958 convention	5803
National Institutes of Health, sci-		Disarmament:	
entific personnel	9472	and foreign policy, hearings	6057, 7610
post offices, 1959	13547	arms control and related problems	
refrigerated warehouses of United		in Europe, handbook	10035
States	3017	Geneva test ban negotiations, hear-	
regional offices, Health, Education,		ings	7611, 16202
and Welfare Dept.	524, 6301	problems, investigation, authoriza-	
research fellows of National Cancer		tion, reports	3347, 3360
Institute	10509	promoting peace through reduction	
school and college personnel work,		of armaments, report	15862
preparation programs and		Disasters:	
course offerings, 1959-60	16254	civil defense home food storage	
seed and planting stock dealers	9104	program for survival	246
small companies for research and		civil disturbances and disasters,	
development work	2130	Air Force manual	1343
Soviet scientific personalities and			
organizations	16555		

# INDEX, 1959

	Entry
Disasters—Continued	
emergency operations, instructor's guide.....	7235
feed, seed, and roughage programs, State participating report.....	12190
hay harvesting from conservation reserve acreage to alleviate hardships—	
hearings.....	15935
report.....	14501
medical records for casualties.....	8470
natural—	
Federal relief manual, reports.....	14519, 14562
providing Federal assistance (address).....	9732
SBA loans for businesses, for homes, types, etc.....	4053
services, national plan for civil defense.....	4370
Texas City disaster claims act, amend—	
law.....	15745
reports.....	7382, 16148
victims, food aid through distribution program, 1958.....	25
water, responsibilities for production and distribution.....	1482
water supply requirements in civil defense emergencies.....	1483
<i>see also</i> Relief work.	
Disbursing officers:	
Federal agencies, principles and procedures, G.A.O. guidance manual.....	505
Navy disbursing system, comptroller manuals.....	1134, 2094, 3993, 5354-57, 6866-67, 9437-38, 13524, 15138-141, 17000-1, 17813-814.
Disbursing offices:	
Federal agencies, principles and procedures, G.A.O. guidance manuals.....	1706-7, 4917
Navy disbursing system, comptroller manuals.....	1134, 2094, 3993, 5354-57, 6866-67, 9437-38, 13524, 15138-141, 17000-1, 17813-814.
Discharge:	
corrected, to benefit certain aliens—	
law.....	12000
reports.....	9831, 12417
correction, consider good conduct in civilian life, report.....	8652
<i>see also</i> Separation (military).	
Discharge of indebtedness, <i>see</i> Debt.	
Disciplinary barracks, Air Force confinement facilities, operation, AF manual.....	1342
Discount companies, discount-house operations competitive impact on small business, report.....	329
Discounts:	
farm credit banks and associations, annual report 1958.....	4791
functional, to wholesalers, amend Clayton act, hearings.....	12300
Discrimination in employment:	
equal job opportunity works everywhere.....	8179
International Labor Conference convention and recommendation, texts.....	8544
Discriminators, multichannel differential design, Chinese plan.....	6399
Discussion, <i>see</i> Forums (discussion and debate).	
Diseases:	
circulatory, studies on relationship of fish oils.....	1639
control, in swimming pools through proper design and operation, training manual.....	10572

	Entry
Diseases—Continued	
limitation of activity and mobility due to chronic conditions, U.S., July 1957-June 1958, statistics.....	15168
medical geography considerations regarding Rumania.....	1875
medical statistics, report of surgeon general of Navy, 1958.....	16681
publications, price list.....	15162
<i>see also</i> Contagion and contagious diseases—Diseases of animals—Diseases of fish—Diseases of plants— <i>also</i> names or classes of diseases.	
Diseases of animals:	
animal morbidity reports.....	2279, 3033, 10731
cooperative control and eradication, code of Federal regulations.....	9597
epizootic and zoonotic diseases and their control in Poland.....	1819
farm, Soviet abstracts.....	3739, 3784, 5031, 5079, 5081-82, 5087, 6528, 6373, 10304, 10312, 10317, 10320, 13024, 13043, 13130, 13150, 13181, 13216, 13225, 16572, 17620.
wildlife diseases, laboratory for research, report.....	14489
<i>see also</i> names of diseases or animals affected.	
Diseases of fish:	
freshwater fish diseases caused by pseudomonas-like bacteria of genus <i>Aeromonas</i> .....	3504
parasite, recommended treatment.....	10134
<i>see also</i> names of diseases or fish affected.	
Diseases of plants:	
conditions in Northeast, 1957.....	489
enemies of forests.....	3550
forest—	
Lake States, 1958.....	7825
Northeast, 1958.....	12746
intercepted plant pests, list.....	9593
new occurrences and developments in U.S., 1957.....	55
plant disease reporter.....	2276, 10728
index to supps. 250-253.....	5518
rootrot, annotated bibliography.....	1287
supplements.....	55, 4160, 5518, 7043, 8297-98, 9596, 11607, 13716.
southern pine nurseries.....	4898
Soviet abstracts.....	1840, 1850, 3729, 5044, 6476, 6545, 6569, 13008, 13146-147, 13195, 13218, 13234, 14902, 17588.
vegetables, insects and diseases in home gardens.....	11625
<i>see also</i> names of diseases or plants affected.	
Diseases of poultry, protection against introduction and dissemination, hearing.....	10022
<i>see also</i> names of diseases.	
Dishonesty, reducing stock shrinkage in small firms, control devices.....	8219
Disinfective aerosols as means of disinfecting air.....	5130
Dispensaries, Army and Air Force, medical facilities, electrical requirement.....	8959
Dispersion relation for process $\pi + N \rightarrow \pi' + \pi'' + N$ approximation of quiescent nucleon.....	4307
Display of merchandise:	
cranberries, prepackaged, maintenance of quality during retail display.....	7059
fruits and vegetables, paper-packaged, displayed on ice, protection.....	1315
Disposal of refuse, <i>see</i> Refuse.	

# JANUARY-DECEMBER

	Entry
Disputes, <i>see</i> Industrial arbitration.	
Dissertations (academic):	
degrees in science and engineering	
in USSR institutions, lists	6625,
10384, 16634, 16545, 17574,	17649
home economics, etc., titles	3076
management and ecology of fish-	
eries, list	7753
Dissonance (psychology):	
cognitive, measure of tolerance re-	
search	3128
Distillation:	
coal and motor oil utilization in	
China	6347
creosote residue studies in marine	
borer control	10542
vacuum recovery of magnesium and	
cadmium from incendiary al-	
loys	10453
Distillation units, vapor compression	
use of acid injection to prevent	
scale, test result	10639
Distinguished Service Cross, change	
designation to Air Force Cross,	
report	4585
Distribution (economics):	
Commerce Dept. publications for	
use in marketing and distribu-	
tion	11768
distribution data guides	2332, 10793
indexes	2331
making sales figures talk	13584
research, status and prospects (ad-	
dress)	200
trades, importance in technical co-	
operation	12783
<i>see also</i> names of commodities.	
Distributive education:	
program, role of teacher education	14596
supervision to improve instruction	16261
District Courts:	
New York, records, preliminary in-	
ventory	16932
Oklahoma, eastern district, waive,	
sec. 142, title 28, U.S.C.—	
law	15730
reports	15805, 16154
peremptory challenges in civil cases	
to multiple plaintiffs—	
law	15647
reports	4557, 14529
representation of indigent defend-	
ants in Federal criminal	
cases—	
hearings	17335
report	7566
transfer of cases to Court of	
Claims, report	9841
<i>see also</i> Judges.	
District Judges, <i>see</i> Judges.	
District of Columbia:	
alcoholic beverage control act,	
amend—	
hearing	14332
report	15927
alley dwelling act, facilitate acqui-	
sition of property, report	7591
annual reports of departments, re-	
strict inclusion of illustra-	
tions—	
law	11988
reports	7593, 9890
appropriations, 1959, supplement-	
al, proposal	4466
appropriations, 1960—	
hearings	4630, 7601
law	11991
reports	4628, 8815, 9891
supplemental, proposal	12334
Association for Childhood Educa-	
tion International, exempt cer-	
tain property from taxation	7589,
	13965, 14132

	Entry
District of Columbia—Continued	
banks, abstract of reports	3252,
	7276, 11873
budget, 1960—	
amendments	5945
departmental edition	1403
document edition	1523
buildings, NASA to lease through	
GSA—	
hearings	7486, 7598
law	7309
reports	4618, 7553
business corporation act, amend—	
law	11993
reports	12142, 12406
census of governments, 1957, State	
bulletin	13851
certificates, birth and death, amend	
laws relating to fees and trans-	
cripts—	
law	14033
reports	12258, 12414
Charter Commission, establish,	
hearings	10032
child placing in family homes,	
amend act regulating—	
law	14032
reports	12257, 12413
civilian defense action guide	17294
civilian defense activities, investi-	
gations, hearing	10043
code of laws—	
amend provisions relating to at-	
tachments and garnishment of	
wages, etc.—	
hearings	9906
law	12016
reports	5892, 10013
amend provision relating to prac-	
tice of dentistry—	
law	11985
reports	7409, 10015
supplement	7472
Condemnation of Insanitary Build-	
ings Board, amend act, report	5995
convenience foods and their cost to	
consumers, pilot study	21
corporations, limitation on number	
of trustees, eliminate—	
law	11970
reports	8630, 10012
council, create, report	10020, 10032
courts, prohibit examination of	
clergy concerning information	
obtained professionally, re-	
port	12146, 14461
dangerous or unsafe buildings, re-	
moval, amend act, report	5994
dentistry practice, amend act—	
law	11985
reports	7409, 10015
development, coordinating with	
other areas in Washington	
metropolitan region, report	12403
economic development of Washing-	
ington metropolitan area, staff	
study	341
Elections Board, create, hearings	10032
electric facilities of area, map	16335
electric rate book	12650
employment and earnings statistics,	
guide	7982
fruits and vegetables, unload	5506
gambling, law, amend, report	15868
gasoline, jet fuel, etc., service-sta-	
tion deliveries, Federal sup-	
ply schedule	419
George Mason Memorial Bridge,	
designating—	
law	11973
reports	5893, 10014
governing of metropolitan Wash-	
ington, staff study	342
Government, development, organi-	
zation and functions	8920



# INDEX, 1959

	Entry
District of Columbia—Continued	
heliports, commissioners to study, reports.....	12259, 12404
home rule—	
comparative analysis of bills pending before House of Representatives.....	15941
hearings.....	10032
report.....	10020
hospital center construction, extend time for making appropriations—	
law.....	11972
reports.....	8690, 10016
hungry children, problems, hearings.....	8887
income and franchise tax act of 1947, amend to exempt certain Government employees, reports.....	8691, 16143
indecent publications law, amend, reports.....	12405, 15868
information guide, Army personnel reporting for duty in Washington and vicinity.....	15377
Juvenile Court, additional judges, report.....	5998
land planning considerations in metropolitan area.....	3400
laws relating to perpetuities, restraints on alienation, etc., exempt pension and other employee trusts—	
law.....	15612
reports.....	14211, 14460
Legislative Assembly, create, hearings.....	10032
library and reference facilities.....	10411
life insurance act, amend, report.....	5891
life insurance companies, allow loans to 75% of real estate value—	
law.....	15694
reports.....	14201, 16141
local climatological data.....	2987, 5463, 11540
supplements.....	2988, 11540
mass transportation of passengers, for hire, effective regulation, hearing.....	14556
Metropolitan Police band director, retirement compensation—	
law.....	15720
reports.....	8688, 16163
metropolitan problems, created by growth, etc., investigations—	
continue, reports.....	3352, 4702, 12509
report on findings.....	4704
mileage tax, exempt certain passenger carriers, report.....	7407
Municipal Court Domestic Relations Branch, adjudicate property rights in certain actions—	
law.....	15622
reports.....	14464, 15828
naval history sources, guide.....	1120
new dwelling units, etc., authorized.....	2757, 9309, 9311, 11296
nongovernmental organizations and metropolitan affairs, staff study.....	4749
North Atlantic Treaty parliamentary conference, 1959, Washington, D.C., favoring meeting, reports.....	4603, 6038
notice of special assessments for public improvements, methods of service, amend act—	
law.....	9778
reports.....	5993, 9832

	Entry
District of Columbia—Continued	
nurses, education, examination, licensing, etc., report.....	16137
official register, 1958.....	258
permit paregoric to be dispensed by oral as well as written prescription—	
law.....	14059
reports.....	14212, 14459
persons defending actions on behalf of minor, give releases of liability, etc.—	
law.....	15636
reports.....	14307, 14463
planning budgets for metropolitan area, 1955-59, analysis.....	16231
police, examination announcement, discontinuance notice.....	5740
police, firemen, etc., retirement and disability act, make applicable to former members and their widows, widowers, and children—	
hearings.....	8727
reports.....	8636, 16164
postal service scheme.....	17022
property of VFW, exempt from taxation—	
law.....	15698
reports.....	14202, 16140
public grounds, Boy Scouts to erect memorial—	
law.....	11998
reports.....	8862, 9870
public insurance adjusters, licensing, report.....	14466
public works act, revenue act, and Health Dept., administration, investigation—	
hearings.....	307
report.....	1540
publications, price list.....	17032
real estate, use as national headquarters by American Society of International Law—	
law.....	14061
reports.....	8689, 14465
real property, conveyance to Association of Oldest Inhabitants of District of Columbia—	
law.....	14069
reports.....	12143, 14462
registration of births, amend act, report.....	16136
reserving site for memorial to Franklin D. Roosevelt—	
law.....	14067
reports.....	5848, 14509
sales, closing-out and fire, regulation—	
law.....	14071
reports.....	7406, 14468
school census, amend act, report.....	5996
sightseeing business, insure fair competition—	
hearings.....	15950
report.....	15926
southwest redevelopment, real property tax problem, amend act, report.....	7590
square 59, acquisition by GSA for headquarters site for Pan American Health Organization—	
hearing.....	14577
report.....	14478
stadium construction, etc., amend act—	
law.....	15742
reports.....	12144, 12261, 16142
stores, penalties for willful concealment of goods, report.....	7408
teachers, retirement, credit educational leave, report.....	16139
teachers' salary act, amend, report.....	12260

# JANUARY-DECEMBER

Entry		Entry	
District of Columbia—Continued		Dobriansky, Lev. E., consultation with staff of Un-American Activities Committee-----	15974
transportation problems of metropolitan area, hearings, print additional copies, report-----	7425	Doctors, <i>see</i> Physicians.	
trust funds, legal investments, list-----	3410, 12589	Documentary stamp tax regulations under Internal revenue code of 1954-----	6325
United Spanish War Veterans, Inc., exempt certain property from taxation, reports-----	12407, 13970, 14133	Documents, <i>see</i> Congressional documents—Records—also subjects of documents.	
visiting school groups, NPS special program general information-----	6825	Documents Office, <i>see</i> Public Documents Division.	
Washington, D.C., post office, modernization story-----	8173	DOD, <i>see</i> Defense Department.	
Washington Metropolitan problems, selected references, 1943-58-----	6077	DOFL, <i>see</i> Diamond Ordnance Fuze Laboratories.	
water supply and sewage disposal problems of Washington metropolitan area, staff report-----	343	Dogfish sharks, <i>see</i> Sharks.	
<i>see also</i> Capital of United States—Saint Elizabeths Hospital, Washington, D.C.		Dogs, irradiated, restoration of serum proteins after hemorrhage-----	6591
District of Columbia Board of Dental Examiners:		Dollars:	
issuance of licenses in practice of dentistry, amend act-----	11985	international flow-----	6163
law-----	10015	purchasing power of consumer dollar in U.S. cities, 1913-59-----	16667
reports-----	7409, 10015	Dolly trailer converter and semi-trailer-----	6978
District of Columbia Committee, House:		Dolton, Ill., population, special census-----	15467
calendars-----	2449, 10980	Domestic appliances, <i>see</i> Household appliances.	
expenses, report-----	4561	Domestic commerce, <i>see</i> Commerce.	
hearings, etc-----	307, 8727, 9906, 14332, 15941	Domestic Relations Branch of Municipal Court for D.C.:	
reports-----	1540, 8552, 8630, 8637, 8688-91, 9890, 12141-144, 12146, 12257-261, 14132-133, 14202, 14211-212, 14307, 15828, 15868, 15927.	jurisdiction to adjudicate property rights in certain actions—	
District of Columbia Committee, Senate:		law-----	15622
calendars-----	2468, 11001	reports-----	14464, 15828
hearings-----	8887, 10032, 14556	Domestic sources of foreign credit information-----	451
reports-----	3353, 5993-96, 5998, 7589-93, 9832, 10012-16, 10020, 12403-407, 12413-414, 12481, 12518, 14201, 14459-468, 16136-143, 16163-164, 17347.	Dooling, David, relief-----	4514, 8793, 9767
District of Columbia Teachers College:		Doors:	
conferring degree of master of arts in education-----	15663	hardwood veneered doors, standard of trade-----	7169
law-----	16138	pole-type buildings, farm building plan-----	11642
report-----	17347	ponderosa pine, standard of trade-----	5667
junior college division, establish, report-----	17347	sound insulation, supp-----	2055
Ditching, <i>see</i> Landing (aircraft).		twist, portable equipment for measuring-----	14718
Diuretics, effect in early postnatal period, USSR study-----	17634	<i>see also</i> Storm doors.	
Divers:		Dopan, active anti-tumor preparation, changes in rat sarcoma during treatment, USSR study-----	1889
diving manual-----	17072	Dorfman, Allen M., labor union improper activities investigation, hearings-----	4743
change-----	2128	Dorfman, Paul J., labor union improper activities investigation, hearings-----	4743
program of assistance to oyster industry, starfish behavior studies-----	4854	Dormitory life, is it living? in-service training pamphlet-----	6316
Dividends, <i>see</i> Corporations.		Dosimeters:	
Diving boards, laminated, how to make-----	1686	pocket, charging gadget, USSR-----	1931
Divorce:		thermoluminescence applications-----	13520
records, where to write-----	2067	use for measuring solar ultraviolet radiation-----	12963
United States, Alaska, etc., 1957-----	9412	Dosimetry:	
United States and each State, Alaska, etc., 1957-----	9413	apparatus used, handbook, USSR study-----	17515
Dkherangin Mountain, sulvanite from Elayey-anthroxolite slate horizons-----	1778	development in USSR-----	12896
DNA, <i>see</i> Desoxyribonucleic acid.		gamma ray, human head irradiation, USSR studies-----	6441
Dobarganes y Torres, Gerardo R., confer citizenship posthumously-----	12078A, 15563, 16012	problems, USSR conference on medical radiology, proceedings-----	10231
		radiation therapy, current problems, units of measurement, etc., USSR study-----	14863
		radium and mesothorium poisoning-----	4308
		Double-rig shrimp trawling in Gulf of Mexico-----	434
		Douglas airplanes, <i>see</i> Airplanes.	
		Douglas County, Oreg., Douglas fir sawtimber stand, mortality study-----	493
		Douglas fir, <i>see</i> Fir.	
		Douglas fir beetles, <i>see</i> Beetles.	

# INDEX, 1959

	Entry		Entry
Douglas-fir tussock moths, <i>see</i> Tussock moths.		Drag (aircraft)—Continued	
Douglas McKay Dam and Reservoir: designating—		flight determination, scoop inlets located at maximum-body-diameter station, at Mach numbers from 0.8 to 1.8.....	1050
report.....	14483	high lift-drag ratios at high supersonic speeds, aircraft configurations developing.....	6689
views.....	14483	induced, of wing-fuselage combination.....	8090
Dover, Del., aircraft accident.....	17292	jet effects on drag of conical afterbodies.....	13429
Downwash (aircraft):		lip bluntness and shape effect.....	16825
behind pointed-tip wings, analysis.....	13383	longitudinal positioning of half-submerged and pylon-mounted Douglas aircraft stores, effect on fuselage with and without cavities between Mach numbers 0.9 and 1.8.....	17727
behind wings performing various motions at supersonic speeds, estimation tables.....	8075	low-lift, data from delta-wing rocket models with and without external stores at Mach numbers from 0.8 to 1.36.....	13409
hovering vertical-take-off-and-landing VTOL airplane starts surface erosion of terrain.....	16893	low-lift wing, at transonic and supersonic speeds, effects of some leading-edge modifications, etc.....	3913
transonic, sweptback wing combination with cylindrical body.....	1029	minimization for wings and bodies in supersonic flow.....	10467
DP pamphlets.....	2110	moment-of-area rule modification effect on characteristics.....	6766
Draculacephala, <i>see</i> Leafhoppers.		multijet water-based aircraft having low transonic drag rise.....	13412
Draft (military), <i>see</i> Conscription.		parabolic afterbodies, effect of nozzle contour.....	16776
Drafting, <i>see</i> Mechanical drawing.		pressure—	
Draftsmen, draftsman I&C, Navy training courses.....	8137	45° sweptback wing configuration, effectiveness of Mach number 1.0, 1.2, and 1.41 fuselage indentations for reducing drag of axisymmetric cowl having lip angles at Mach nos. 1.90 to 4.90.....	2043
Drag (aircraft):		ram-jet engine with double-cone inlet in free flight at Mach numbers 0.7 to 1.8, data.....	980
affected by external fuel tanks and rocket packets, tailless fighter plane.....	17722	reducing, transport configurations at high subsonic speeds.....	6770
axially symmetric nose shapes of fineness ratio 3 for Mach numbers from 1.24 to 7.4.....	6683	rocket-powered airplane having sweptback wing and inline tail surfaces.....	16821
Bell X-5 airplane in 45° sweptback configuration at transonic speeds.....	16800	satellite entry, minimize acceleration by variation of drag with lift.....	17751
body drag of jets exhausting from wing-mounted nacelles, effects, characteristics—	13418	series of triangular wing and body combinations at mach. no. 1.94, investigations.....	1051A
auxiliary inlets at transonic speeds.....	16867	60° delta-wing configuration, propulsive jet effect.....	13419
convergent-divergent nozzle with various exhaust jet temperatures.....	6701	sting-support effects on afterbody pressure and comparison with jet effects, experimental investigation.....	2018
plug-type exhaust nozzle.....	5231	surface, spoiler, jet controls, effectiveness on 80° delta-wing missile, free flight investigations at Mach numbers between 0.5 and 1.7.....	10482
related series of afterbodies, heated propulsive jet effects, preliminary results of investigation at transonic speeds.....	13413	swept-wing fighter-airplane with 2 drag-rise-reducing fuselage, investigations.....	16818
thin wings of aspect ratio 3 and taper ratio 0.4 at subsonic and supersonic speeds, effect of leading-edge sweepback.....	956	trailing-edge bluntness effect.....	15058
wingless rocket-powered models, effects of external-store mounting arrangements and shapes, coefficients of boattail body of revolution with simulated turbojet exhaust, free flight investigation.....	1046	transonic, zero-angle-of-attack associated with vertical position of horizontal tail at zero incidence, experimental study.....	1055
configurations consisting of 3 triangular wing-panels and body of equal length, characteristics.....	5221	transonic speeds, sweptback-wing-fuselage juncture for drag reduction.....	1047
cowl pressure, of normal-shock inlets at supersonic speeds, change with mass-flow ratio.....	16755	vertical-short-take-off-and-landing airplanes, estimating.....	5264
delta-wing fighter minimum drag reductions obtained from flight tests of rocket-boosted models and equivalent bodies between Mach numbers 0.80 and 1.64.....	16834	wave drag—	
Douglas D-558-II research airplane transonic speeds, wing-mounted external stores effect.....	16801	application of Tchebichef form of harmonic analysis to calculate zero lift.....	17723
due to lift of delta wings at Mach numbers up to 2.0.....	13408		
external effects of short ejector, investigation at supersonic speeds.....	16813A		
external store, reduction at transonic and low-supersonic Mach numbers by application of Baldwin's moment-of-area rule.....	6692		
flat- and vee-windshield canopies on parabolic fuselage.....	1095		

	Entry
Drag (aircraft)—Continued	
wave drag—continued	
applications of transonic and supersonic area rules to prediction.....	16830
axially symmetric flow over steps at transonic speeds with comparisons of estimated and experimental results.....	16760
coefficients, for delta wing with 2 airfoil sections.....	16870
numerical method for calculating configuration from 2d derivative of area distribution of series of equivalent bodies of revolution.....	6753
zero-lift, of 45° swept wing, symmetrical body indentations designed to reduce.....	3884
zero-lift, supersonic and moment-of-area rules combined for rapid calculations.....	9371
wing inboard plan-form modification effects on lift, drag, longitudinal stability of rocket propelled model with sweptback wing.....	16855
zero-lift—	
ballistic missiles.....	15064
body of revolution, transonic investigation of effects of semi-submerged store cavities and slots.....	16762
drag of several wings at Mach numbers from 1.4 to 3.8, free flight measurements.....	15067
effect of conical and flat sting-mounted windshields.....	16864
effect of moment-of-area-rule modification.....	13388
large fuselage cavity and partially submerged store.....	6748
60° delta wing-body configuration, effect of inlet installation.....	1051
wave, delta wings with constant and varying thickness.....	16811
Dragnich, Alex N., consultation with staff of Un-American Activities Committee.....	322
Drainage:	
control, structures for airfields, engineering manual, change.....	4786
deep soil stabilization by vertical sand drains.....	17165
publications, price list.....	4018
systems at Naval activities, principles, etc., for design, construction, maintenance.....	10640
Drama, copyrighted.....	345, 8912, 17364
Draper Committee, see President's Committee to Study Military Assistance Program.	
Drawing paper, Federal supply schedule.....	414
Drawings:	
abbreviations, military standard.....	12579
aeronautical standards, Air Force, etc., alphabetical list.....	17222
engineering—	
numbering and coding, military standard.....	10060
preparation of associated lists, military standard.....	12580
types and definitions, military standard.....	7660
engineering materials list.....	4325-27, 11741, 17264
production, format, military standard.....	8925
reference, Federal item identification guides for supply cataloging.....	348-350, 3405
supplements, weekly.....	2485, 11017

	Entry
Drawings—Continued	
scientific and technical, copy-righted.....	4752, 7649
transmission voltages line construction.....	8207
Dried foods, see names or classes of foods dried.	
Dried milk, see Milk.	
Drill (military), see Military drill.	
Drill cores:	
concrete, compressive strength, investigation.....	16275
logs—	
Bristol, Cadiz, and Danby Dry Lakes, geologic investigations.....	6283
Searles Lake, geologic investigations.....	9115
Drilling:	
boreholes with small diameter bits, experimental results of work, USSR study.....	6582
caliper-log, gamma-ray-log, and other diamond-drill-hole data, comparison.....	4924
deep core in ice, Antarctica.....	16269
see also Core drilling—Well drilling.	
Drills (tools):	
twist, Federal supply schedule.....	12666
Drinking places, fish and shellfish consumption.....	10138
Dripping Spring quartzite, Gila County, Ariz., uranium deposits.....	7846
Drivers, see Motor vehicle operators—Motortruck drivers.	
Drop-outs, America's growing problem.....	10395
Dropsondes, see Radiosondes.	
Droughts:	
climatic type in Yangtze and Hwai River Valleys.....	13047
Great Plains and Southwest, report.....	4011
hardwoods recovering.....	6275
prevention, relationship to rainfall in North Vietnam.....	6404
southern forest fire control, system for estimation.....	6272
Drug addiction, see Narcotic habit.	
Drugs:	
antibiotics, new medicinal forms, and their application.....	806
Army Medical Service formulary.....	5628
code of Federal regulations.....	7721
effect on performance, critical review and bibliography.....	13521
F.D.C. regs.....	435-436
food, drug, and cosmetic act—	
amend, law.....	5776
amend, reports.....	4558, 4597, 4613, 4713
color additives amendments of 1959, report.....	16073
cream and butter requirements, how to meet.....	12693
enforcement and compliance report.....	11176
enforcement regulations, general, insert.....	16393
notices of judgment.....	2636, 11174
requirements guide, foreign manufacturers, etc., erratum.....	3515
text, revised pages.....	7762, 12694
local anesthetics, pharmacology and reactions from topical use.....	15235
Moscow medical industry, fulfillment of 7-year plan.....	16599
new, for treatment of central nervous system diseases, USSR study.....	10334
pharmaceutical regulations—	
Australia.....	14695
Belgian Congo.....	10153



# INDEX, 1959

Entry	Entry
Drugs—Continued	Dulles, John F., statement..... 6059
pharmaceutical regulations—con.	Duluth, Minn., electric facilities of
Italy..... 1662	area, map..... 16337
Panama..... 3540	Dummy loads, waveguide, utilizing
Ruanda-Urundi..... 10153	high-loss ferromagnetic ma-
pharmacology—	terials as dissipative elements..... 13511
research in China, present and fu-	Dumortierite, bibliography..... 10188
ture..... 10257	Dunbar, W. B., relief..... 4517, 5981, 7291
Soviet abstracts..... 1826,	Dunes, lower Wei and Lo Rivers, to-
10315, 10319, 13001, 13038,	pography..... 14796
13077, 13085, 13095, 13098,	Duodenitis, death rates by age, color,
13108, 13119, 13174, 14880,	and sex, 1949-51..... 15106
14909, 16584, 16591.	Duodenum ulcer, death rates by age,
protective action in radiation in-	color, and sex, 1949-51..... 15104
juries, USSR studies..... 1922	Duplicability studies of BM-AGA
publications, price list..... 15161	test method and correlation
safe new drugs..... 442	with industrial coking..... 8050
sedatives, effect on skin reaction to	Duplicating equipment operators, mi-
irradiation by radioactive phos-	cellaneous examination an-
phorus, USSR studies..... 6447	nouncement..... 5734
Soviet biological pharmaceutical	Duplicating plates, <i>see</i> Plates (pho-
and medical industry..... 1824	tographic)
<i>see also</i> Medicine—Narcotics—	Duplin County, N.C., soil survey..... 8229
Psychopharmaca— <i>also</i> names	Durant, Okla.,
of drugs.	district court, remodeling of post
Drums (containers):	office building..... 15730
nonfat-dry milk, resistance to in-	reports..... 15805, 16154
sect invasion..... 4185	Durum wheat, <i>see</i> Wheat.
steel shipping, facts for industry..... 2371,	Dust:
5699, 10902	continuous flow ultramicroscope
Dry cargo service and area reports..... 6642,	VDK-4, USSR studies..... 5101
14983	cosmic, nickel-bearing, collected in
Dry batteries, <i>see</i> Electric batteries.	stratosphere, observations..... 11671
Dry cleaning plants, design and con-	intratracheal introduction into ani-
struction, engineering manual..... 12606	mals, USSR studies..... 7938
Drydocks:	method of selecting samples from
facilities—	air with particle sizes less than
design, construction, and opera-	microns, USSR studies..... 6599
tion..... 15248	<i>see also</i> Pneumoconiosis.
maintenance and inspection..... 13670	Dust respirators, <i>see</i> Breathing ap-
floating—	paratus.
include among vessels eligible for	Dusting apparatus, helicopters, agri-
Federal ship mortgage insur-	cultural equipment, USSR
ance—	study..... 7925
hearing..... 12552	Dutch elm disease, control..... 1297
reports..... 10004, 14291	Duties, <i>see</i> Tariff— <i>also</i> names or
views..... 10004	classes of articles imported.
loan to Peru, agreement..... 13625	Duval Sulphur & Potash Co., potash
Drying, <i>see</i> names of substances dried.	mine and refinery, electric-
Dubynskiy, Vladimir A., creative	power-distribution system, de-
path..... 5153	scription..... 16697
Ductility:	Dwarf mistletoe, <i>see</i> Mistletoe.
brittle-ductile transition in vana-	Dwellings, <i>see</i> Alley dwellings—
dium..... 182	Houses—Housing.
ceramics—	Dwyer Flying Service, Inc., accident..... 15501
factors affecting plasticity of so-	Dyberry Creek:
dium chloride, lithium fluoride,	dam and reservoir, designate Gen-
and magnesium oxide single	eral Edgar Jadwin Dam and
crystals..... 16901	Reservoir—
introductory study in polycrys-	law..... 15699
talline sodium chloride and	reports..... 14258, 16175
magnesium oxide..... 16902	Dyes and dyeing, organic, dependence
crucible steel 422, effect of thermal	of dark conductivity on tem-
cycling on stress rupture be-	peratures, German studies..... 6406
havior..... 17741	Dynamic stability, <i>see</i> Stability of
sheet metal, bend test to measure	aircraft.
uniformity..... 4004	Dynamics:
Ducts (aircraft):	atmospheric, numerical solution of
by-pass-duct design for use with	equations..... 3788
supersonic inlets..... 6737	desorption of iodine from activated
expanded sections and screens for	charcoal, USSR study..... 9265
reducing flow distortions at	formation of simultaneous and
subsonic flows..... 9363	trade conditioned reflexes of
inlet, unequal air-flow effect on per-	alpha rhythm suppression and
formance of axial-flow turbo-	their differentiation, USSR ex-
jet engine..... 16779	perimental material..... 1772
screens for removing distortions in	sorption of 2 components of a mix-
flows..... 6750	ture, USSR study..... 9255
Dueker, Fred E., relief..... 4534	supersonic inlet with adjustable
Dues, tax on, guide for small busi-	bypass in combination with
ness..... 4957	J34 turbojet engine..... 5239
Duff, Logan, relief..... 4519, 5978, 7287	Dynamite, Federal supply schedule..... 1629
Duggins, Harve M., relief..... 14382	Dynamometers, articulated vehicle,
Dulsberg, Walter H., relief..... 9812	deep snow mobility tests..... 6977
Dulin, William E., relief..... 14106	

	Entry		Entry
Dysentery:		East (Near East)—Continued	
Astrakhan session of Academy of		foreign relations of U.S., 1941—	
Medical Sciences, USSR on		departmental edition.....	9504
problem of intestinal infec-		document edition.....	8528
tions.....	12942	Near and Middle Eastern series.....	2151,
death rates by age, color, and sex,		4075-76, 6952-53, 8233-34, 9508,	
1949-51.....	3966	13612, 15201, 17096.	
		oriental arts, Islam and the East..	16453
		research studies currently in prog-	
		ress, list.....	1187
		United States trade, 1956-58.....	12722
		East (U.S.):	
		Cenozoic echinoids.....	10193
		cost of transporting freight.....	3628
		instrument approach procedure	
		charts and airport obstruction	
		charts, dates of latest prints.....	2407,
			10936
		Mexican bean beetle control.....	90
		seasonal farm work areas.....	7674
		East Africa, see British East Africa.	
		East Berlin, see Berlin, Germany.	
		East Coast, see Atlantic Coast.	
		East Germany, see Germany.	
		East Millard area, Utah, soil sur-	
		vey report.....	15192
		East-West trade, see Commerce.	
		Eastern Air Lines, Inc., accident.....	17291
		Eastern Florida, coastal warning fa-	
		cilities chart.....	15240
		Eastern States, see East (U.S.).	
		Eastern Utilization Research and De-	
		velopment Division, publica-	
		tions and patents, list.....	3042, 8299
		Eastport, Me. to Montauk Point,	
		N.Y., coastal warning facili-	
		ties chart.....	7001
		Eating utensils, see Tableware.	
		Eazor, Express, Inc., motor vehicle	
		accident.....	12796
		Eber Bros. Wine & Liquor Corp.,	
		relief.....	4493, 14368,
		15776	
		Eberharter, Herman P., memorial	
		services.....	13907
		Echinoderms, see Sea cucumbers.	
		Echinoids, see Sea urchins.	
		Echo, spurious echoes on radar,	
		survey.....	13749
		Echography, ultra-sound defecto-	
		scopy aid in diagnosis of tum-	
		ors, USSR studies.....	10349
		Eclipses:	
		solar, comments on ephemerides	
		and constants.....	11672
		solar spectral intensity measure-	
		ments at 3600A-6400A wave-	
		lengths, Oskarshamn, Sweden,	
		June 30, 1954.....	8146
		Ecology:	
		investigations of boll weevil, Tal-	
		lulah, La.....	15334
		north Alaskan Eskimo—	
		departmental edition.....	8375
		document edition.....	8529
		nuclear war effects, hearings, ex-	
		cerpt.....	13806
		Sheepscot River estuary.....	16391
		shoal-water, Saipan.....	12767
		study of ionizing radiation, USSR.	12900
		Economic aid, see Foreign aid.	
		Economic assistance, see Foreign aid.	
		Economic conditions:	
		American economy (address).....	405
		American economy, problems and	
		prospects, hearings.....	7319
		American goals.....	17820
		America's growth and moral direc-	
		tion (address).....	5160
		coordinated national estimate rela-	
		tive to U.S. foreign policy,	
		hearings.....	6059
		economic and social changes in	
		1958 (address).....	1972
Eagle (periodical).....	2888, 11428		
Ear Mountain, tin placer and lode			
Investigations in area.....	16720		
Earning Opportunities Forum, older			
women, St. Petersburg, Fla.,			
report.....	9559		
Earnings, see Salaries—Wages.			
Earth:			
magnetic field.....	5025		
mass and shape, joint determination			
by astronomic, geodetic and			
gravimetric data.....	10262		
motion from underground detona-			
tions, studies.....	8399,		
	11725-727, 15405-408		
shape, new methods of studying,			
USSR.....	637		
temperature, periodical heat flow in			
stratified medium with appli-			
cation to permafrost prob-			
lems.....	16462		
see also Satellites.			
Earth satellites, see Satellites.			
Earthquakes:			
correlations between microseisms			
and earthquakes, evidence.....	5345		
Hebgen Lake, Mont., 1959.....	15540		
history, United States.....	4393		
quarterly engineering seismology			
bulletin.....	10939		
seismological bulletin.....	2411, 10940		
seminar on surface seismic waves,			
USSR.....	9253		
United States, 1957.....	15541		
Earths, see Rare earths.			
Earthwork and structures:			
classification bulletin.....	2099		
embankments, manual.....	8958		
Earthworms, see Bollworms.			
East (Far East):			
current situation, hearing.....	14335		
Far Eastern series.....	1193,		
	2150, 8230, 13607, 17854		
flight information, corrections.....	2303		
oriental arts, Islam and the East..	16453		
radio facility charts.....	2309, 10760		
regional synoptic meteorologists			
conference.....	1879		
research studies.....			
currently in progress, list.....	1184		
recently completed, list.....	2141		
waters, chemical research, USSR..	16542		
East (Middle East):			
economic and military cooperation			
with nations in area, 3d re-			
port.....	1528		
economic strength development,			
U.S. to cooperate, 3d report.....	1528		
flight information, corrections.....	2304		
indefinable region, geography and			
general information.....	8234		
Near and Middle Eastern series.....	2151,		
	4075-76, 6952-53, 8233-34, 9508,		
	13612, 15201, 17096.		
oriental arts, Islam and the East..	16453		
research studies—			
currently in progress, list.....	13602		
recently completed studies, list..	2145		
Soviet economic penetration, study..	15996		
East (Near East):			
agricultural products, problem of			
surpluses and deficits.....	4869		

# INDEX, 1959

	Entry		Entry
<b>Economic conditions—Continued</b>		<b>Economic geography of Kwangtung—</b>	<b>574</b>
economic climate for 1959 (address).....	4410	<b>Economic guide for watershed and flood prevention.....</b>	<b>5410</b>
economic indicators.....	2444, 10975	<b>Economic indicators.....</b>	<b>2444, 10975</b>
Federal tax policy for economic growth and stability, papers, additional copies, report.....	14280	<b>Economic Joint Committee: hearings, etc.....</b>	<b>3260-61, 4423-24, 7319-20, 8525, 9795, 12031, 15753-756, 17316-318.</b>
free enterprise in economic growth (address).....	15544	investigations and studies, matters within its jurisdiction, authorization, report.....	5999
great expectations (address).....	13902	report.....	4730
influence on children, research programs, studies in progress.....	8466	representation of majority and minority membership, fixing, law.....	4421
international influences on American economy, hearings.....	15754	views.....	4730
leadership and progress, test of our time (address).....	15149	<b>Economic orders, Civil Aeronautics Board.....</b>	<b>2386, 10917</b>
money and credit in economic expansion.....	12660	<b>Economic policy:</b>	
money supply and debt management relationship, hearings.....	15754, 17317	achieving winning combination (address).....	15542
outlook (addresses).....	1504, 17176	Amoy's 1958 national plan, report.....	6553
population, invention, and economic wisdom growth potentials in 1960-70 decade (address).....	17307	Anhui province national plan, 1957, implementation results, report.....	700
publications, price list.....	6905	attracting capital investment (address).....	13900
report of the President to Congress.....		between USSR and China after formation of People's Republic of China.....	6498
departmental edition.....	2104	employment act of 1946, amend, answers to inquiries.....	15945
document edition.....	1527	hard problems and soft hearts.....	10108
hearings.....	4424	Mongolian People's Republic, role of socialist order in development.....	5054
joint committee report on.....	4730	national plan for civil defense and defense mobilization, planning basis.....	13874
joint committee views on.....	4730	North Vietnam 1959 state plan, newspaper articles.....	13064
research and development and economic growth (testimony).....	6840	North Vietnam three year plan, 1958-60, government report.....	6390
research and development impact, conference proceedings.....	1118	questionnaire, tabulation of replies.....	4423
rising economy (address).....	15453	Soviet, realities (address).....	6947
scientific research and development implications, bibliography.....	17787	statistics (address).....	8011
Sino-Soviet economic threat to newly developed free nations.....	6946	treaty with Sultan and Oman, text.....	12343
socialistic planned, spinning process, mechanization and automation.....	802	Western Europe, report on conferences.....	9795
Soviet economic penetration in Middle East.....	15996	<i>see also</i> international cooperation.	
statistical methods for studying, USSR studies.....	9235, 9242, 10337	<b>Economic regulations, Civil Aeronautics Board.....</b>	<b>2384, 9731, 10915</b>
strengths and weaknesses in general economy for 1960 (address).....	15554	<b>Economic security, <i>see</i> Social security.</b>	
unemployment, alleviate by area redevelopment—		<b>Economic stabilization, <i>see</i> Stabilization.</b>	
hearings.....	4737, 5922, 6049	<b>Economics:</b>	
report.....	5992, 7426	analysis, manufacturing since 1947, output measures.....	4826
views.....	5992, 7426	bright future without inflation (address).....	8263
United States, comparison with Soviet economies, papers submitted in subcommittee study.....	15753, 17316	comparative, of smelting open hearth and electric-furnace steel in foundry production, USSR.....	3686
USSR semiannual plan, fulfillment, report on development.....	565	economic reports.....	1405-56, 3178, 5667-71
world trade information service.....	454-460, 1649-56, 3529-33, 4872-77, 6220-27, 7769-97, 9067-72, 10146-150, 12705-708, 14685-693, 16419-420, 17442.	European community and concern of American business organizations (address).....	8494
<i>see also</i> Negroes—also names of countries, States, etc.		geography investigations in Communist China, methods used.....	12883
<b>Economic controls, <i>see</i> Stabilization.</b>		Hunan statistical bureau's report on fulfillment of national plan for 1st half of 1958.....	9159
<b>Economic cooperation, <i>see</i> Foreign aid.</b>		Inner Mongolian autonomous region, report on 1958 plan and proposed second 5-year plan.....	9208
<b>Economic cooperation series.....</b>	<b>1179, 4067-68, 6944-45, 10591, 15196, 17085.</b>	Korea, North—	
<b>Economic development, <i>see</i> Economic policy—Foreign aid.</b>		economic report, newspaper and periodical summaries, etc.....	6501, 6451
<b>Economic effects of U.S. grades for beef.....</b>	<b>3069</b>	economy of industrial establishments, study.....	12994, 12997, 13002, 13020, 13027, 13046
<b>Economic efficiency of using diesel motor vehicles.....</b>	<b>9205</b>		
<b>Economic geography of Amur and Ussuri river regions of Heilungkiang province.....</b>	<b>1748</b>		

# JANUARY-DECEMBER

	Entry		Entry
<b>Economics—Continued</b>		<b>Education—Continued</b>	
Nation's five-foot shelf, basic census data.....	9726	Brazil, education in expanding economy.....	10070
nuclear and conventional merchant ships.....	5654	children in federally affected areas—	
policy decision making of high quality (address).....	4827	annual report, 1958.....	4772
progress and human dignity in south and southeast Asia (address).....	1196	financial assistance, amend law, hearings.....	17332
relation between business and government in economy of future (address).....	13296	provide when public schools close because of desegregation, report.....	15806
Shantung statistical bureau's report on development and state plan fulfillment in 1957.....	9158	children in grades 4, 5, and 6.....	3412
south Asia, mission on problems, report.....	12485	children of servicemen dying from service-connected disability, hearings.....	10050
Soviet challenge and how to meet it (address).....	8176	children with speech and hearing impairment remedied through school services.....	3415
Tientsin's rapid progress.....	6382	civil rights, conference.....	11830
U.S. income and output, current business survey supp.....	4348	Communist China, articles.....	6370
see also Labor—Land.		comparative and international, studies, bibliography.....	372
Economies of scale in chicken processing.....	11573	cooperative research program, projects under contract—	
<b>Economists:</b>		July 1, 1956-Dec. 31, 1958.....	6094
agricultural, examination announcement.....	3209	July 1, 1957-June 30, 1958.....	6095
business, etc., examination announcement.....	253	directory, 1957-58.....	367
<b>Ecuador:</b>		directory, 1958-59.....	368, 1596, 4776, 16256
Army, Naval and Air Force missions, agreement.....	15206	directory, 1959-60.....	16257
exports and imports, licensing and exchange controls.....	7799	education manual.....	1578, 8915, 14583
food regulations.....	17444	educational attainment in U.S., projections, 1960-80.....	3183
Inter-American Conference facilities preparation, financial aid agreement.....	15213	employment and education (address).....	1963
investment in, information for U.S. businessmen.....	3528	exchange programs—	
sending gift packages to.....	16406	agreement with Iceland.....	5428
surplus agricultural commodities, agreement.....	5434, 9513	agreement with India.....	17872
tourist attractions, economy, etc. (remarks).....	15547	agreement with Italy.....	13630
weather stations, agreement.....	5432, 17113	agreement with Philippines.....	4085
<b>Eddy currents, barotropic development, numerical investigation.....</b>	<b>5596</b>	coordination, etc., hearing.....	16199
<b>Edison Laboratory National Monument, boundary revision:</b>		citizen's role in cultural relations.....	17857
law.....	11952	facts.....	4073, 15197
reports.....	4619, 8853	grant program.....	9505
<b>Editorial clerks, examination announcement.....</b>	<b>254</b>	reports of Advisory Commission, semiannual.....	3287, 14117
<b>Editorial specialists, motion picture apprentice, on-the-job training.....</b>	<b>11675</b>	reports to Congress, semiannual.....	4072, 17092
<b>EDPS, see Electronic data processing systems.</b>		review of activities, 1948-58.....	1194
<b>EDTA, see Acetic acid.</b>		State Dept. operations report.....	15767
<b>Education:</b>		teacher opportunities, 1960-61.....	12598
achievements of Air Force officers, methods of testing and test results.....	3122	facilities for primary schools, economic assistance agreement with Turkey.....	17105
adult—		fact sheet.....	2493
participation in, statistics.....	6092	Federal educational work for farmer cooperatives, 1913-53.....	3436
resources and program ideas for local planners, etc.....	16258	Federal financial support to States—	
services of State departments of education.....	7668	hearings.....	7462
around the world, information.....	8945-46	report.....	8703
aviation education series.....	1589	views.....	8703
aviation series.....	8936	Federal funds, 1956-57 and 1957-58.....	3414
benefits to Korean veterans, amend change of program provisions of law—		for age of science, report of President's advisory committee.....	10556
hearings.....	10050, 12319	government publications covering facts, list.....	5376
law.....	14006	in Bulgaria.....	714
reports.....	12213, 12437	in Haiti.....	17373
beyond high school, community action to promote.....	17068	Indians—	
biennial survey.....	8930-32, 17372	dormitory life, in-service training pamphlet.....	6316
biennial survey, 1952-54, title page, contents, and index.....	7663	Indian education (periodical).....	12781
		questions and answers.....	16483
		statistics, 1958.....	532
		international programs of U.S. Government, survey and handbook—	
		report.....	1534
		report, print additional copies, report.....	4627
		Japan, three epochs.....	6090
		mentally retarded children, leadership personnel preparation, graduate fellowship program.....	14594



# INDEX, 1959

	Entry		Entry
<b>Education—Continued</b>		<b>Education—Continued</b>	
motion pictures, and filmstrips selected for use abroad, catalog	17149	television utilization, expedite—	
national defense education act of 1958—		hearings	9914
administration, hearings	5924, 9908	report	4719
national defense education act of 1958—		use of land conveyed to Louisiana State University and Agricultural and Mechanical College—	
counseling and guidance training institute program, analysis	370	law	15650
graduate fellowship programs	7670, 8947	reports	15817, 16094
guide	3420	war orphans assistance act, amend	
language instruction development program	371	report	12217
loyalty oath provision, eliminate		war orphans educational assistance program rel. to education for children of disabled war veterans, explanation	2169
hearings	8904	war orphans educational benefits, extend to children of Spanish-American War veterans—	
report	12402	law	15619
views	12402	reports	12216, 16066
new educational media program	6099	<i>see also</i> Audio-visual education—	
student loan program	1597, 4779, 6098, 7671	Colleges and universities—	
need for training to meet future problems (address)	9280	Curriculum—Distributive education—High schools—Literacy schools—Indian schools—Military education—Moral education—Naval education—Physical education and training—Schools—Secondary education—Teaching—Technical education— <i>also</i> subjects taught.	
newsnotes on education around world	2495, 11026	<b>Education and Labor Committee, House:</b>	
non-technical, in Communist China	706	calendars	2450, 10981
PACAF basic bibliography	1356	hearings, etc.	308, 5923-24, 7460-62, 8728-30, 9907-8, 12285-286, 14333, 17332
People's Republic of China	4968	investigations and studies, matters within its jurisdiction—	
Poland	8945	authorization, report	3314
post-Korean veterans readjustment assistance—		expenses, report	4563
hearings	10050	reports	5868, 8703, 12236
report	12434	views	8703, 12236
views	12434	<b>Education by television, <i>see</i> Television.</b>	
postage rates for educational materials, clarify and make uniform law—		<b>Education Office:</b>	
hearings	5932, 14575	annual report, 1958, on administration of laws granting Federal aid to schools	4772
report	5886	bulletins 1958 series	3412-13
practical nurses, guides for developing curricula	8949	bulletins 1959 series	360, 1591-92, 3414-17, 4773, 6090-91, 7664-65, 8933, 10070-72, 14590-592, 16249-250, 17373-374.
problems in rural and small communities, publications, list	8948	careers, handbook	3421
proceedings of conference on educational television	8938	circulars	361-366, 1593-95, 3418-20, 4774-75, 6092-93, 7666-67, 8934-43, 10073-78, 12591-596, 14593, 16251-255.
professional nurse traineeships evaluation conference—		cooperative research program with universities, etc.	6094-95
facts	17049	handbook, organization and activities	3421
source book	17050	miscellaneous series	3423, 7668-69
prospective students from other countries, guide	16260	miscellany series	369, 4777-78, 6097, 16259
public, progress in United States, 1958-59	10081	pamphlet	10080
public, surveys and studies, 1900-57, list by States	10076	publications	16249
publications of Education Office	16249	selected references	4781
publications, price list	8184	<b>Educational associations, directory, 1958-59</b>	16256
research and program specialist, examination announcements	3208, 11846	Educational boards and departments: characteristics of local school board policy manuals	7665
research, cooperative projects, 1958	10072	institutions approved by State boards for vocational education, institutional heads, list	6097
revenue, State and local sources	4775	State—	
school life (periodical)	2496, 11027	adult services	7668
scientific manpower program—		curriculum responsibilities	3423
hearings	9929, 12309		
report	15921		
selected references	8948, 10082		
severely retarded child, bibliography	6091		
Soviet commitment to, report of U.S. Education Mission to U.S.S.R. with analysis of educational reforms	14590		
State records and reports series	14591, 17374		
State records and reports series, handbook	17377		
surplus property to be taken overseas by organizations, hearings	17353		
teacher, 5th-year programs of preparation	3417		

# JANUARY-DECEMBER

Entry	
Educational Exchange, Advisory Commission on, <i>see</i> Advisory Commission on Educational Exchange.	
Educational Exchange between United States and Spain, Commission for, <i>see</i> Commission for Educational Exchange between United States and Spain.	
Educational Foundation in Finland, <i>see</i> United States Educational Foundation in Finland.	
Educational Foundation in Iceland, <i>see</i> United States Educational Foundation in Iceland.	
Educational Foundation in Philippines, <i>see</i> United States Educational Foundation in Philippines.	
Educational institutions, <i>see</i> Colleges and universities—Schools.	
Educational, Scientific and Cultural Organization of United Nations, <i>see</i> United Nations Educational, Scientific and Cultural Organization.	
Educational therapist, examination announcement	9740
Educators, <i>see</i> Teachers.	
Edward Arthur Patterson Lake: designating—	
law	14040
reports	6033, 12232
EEG, <i>see</i> Electroencephalography.	
Eels, description, etc.	6192
Eggs:	
assemblers, number, size and location	8281
business, Federal wage-hour law application	5458
commercial movement, weekly report	2233, 10687
dried, school lunch recipes	11563
dried, ways of using in family meals, suggested demonstrations	9571
eggs and egg products, grading and inspection	3049
eggs and poultry, conference reports	15289
farm production, disposition, cash receipts and gross income, by States, 1957-58.	5485
foreign agriculture circulars.	2643, 11182
futures trading and open contracts.	2429-30, 10962-963
grading and packing plant, design.	3021
industry, stabilize through marketing regulations, hearing.	14326
marketing, cost and labor output of selected cooperatives in Northeast	8976
marketing spreads, U.S. and selected cities.	5480
movement into retail channels in Chicago area.	13254
outlook for 1959 (statement).	1266
plants operating under poultry products inspection and grading programs, list.	7004
poultry and egg situation.	2217, 10672
price problems of industry, hearings.	12267, 14326
pricing in central markets.	4138
production, 1957-58.	5486
production and marketing, integrating	9611
production, economic statistics through 1957.	8339
products, liquid, frozen, solids productions.	2237, 10691

Entry	
Eggs—Continued	
sold in San Francisco, marketing costs and price spreads.	7056
<i>see also</i> Spawn.	
Eglin Air Force Base:	
land conveyance to Florida, law, amend, report.	8724
land conveyance to Fort Walton Beach, Fla.—	
law	14049
reports	12163, 14491
land conveyance to Valparaiso, Fla.—	
hearings	9900
law	14063
reports	9862, 14493
Egypt:	
economic developments, 1958.	7782
foreign trade, 1956-57.	6232
gazetteer, official standard names, list	14743
money orders, agreement with UAR	17110
patent and trademark regulations.	9081
Egyptian Atomic Energy Commission, creation, programs, etc., report, 1957.	1377
Eisenhower, Dwight D., <i>see</i> President of United States.	
Ejectors:	
double-shroud, configurations over range of primary gas temperatures, performance.	17724
exhaust nozzles, use of main-inlet bypass to supply airflow at supersonic speeds.	5243
external-drag effects and pumping characteristics, investigation at supersonic speeds.	16813A
gross-force and pumping characteristics, effect of free-stream Mach number.	3893
performance effect of varying diameter ratio by using simulated iris flaps.	13403
<i>see also</i> Air ejectors.	
Elastic constants of thorium single crystals.	7145
Elastic-plastic response of thin spherical shells to internal blast loading.	13528
Elastic response to internal blast loading of models of outer containment structures for nuclear reactors.	13529
Elastic scattering of alpha particles by $^{90}\text{Pa}$ .	11723
Elastic strain, <i>see</i> Strains and stresses.	
Elasticity:	
plastic flow throughout volume of thin adhesive bonds.	1679
visco-elastic properties of snow and ice in Greenland ice cap, research report.	17380
Elastomers, diene, synthesis by means of stereospecific catalysts, literature survey.	9447
Elections:	
and privileges, investigation, expenses, report.	3355
Armed Forces voting information.	8378
Attorney General power to inspect, recommendations of the President.	3289
Federal elections act of 1959—	
report	12474
views	12474
Federal records, Attorney General power to inspect, report.	15806
national, increased forces at naval activities prior to, repeal restriction—	
law	14004
reports	4601, 12470

# INDEX, 1959

	Entry		Entry
<b>Elections—Continued</b>		Electric furnaces, smelting of iron ores of east Texas, progress report.....	2011
political broadcasting, amend communications act—		Electric gages, strain, adhesives for attaching to plastics.....	17007
hearings.....	14343, 14569	Electric generators, small, generating sets, facts for industry, 1957.....	7209
law.....	14100	<i>see also</i> Electric power plants—	
reports.....	12255, 12463, 14242	Signal generators.	
views.....	12255, 12463	Electric geophysical exploration methods of pure anomaly, USSR study.....	3693
political campaign contributions by labor and management, improper activities investigation, hearings.....	17354	Electric heating:.....	
provincial and district Lao Dong Party committees in North Vietnam.....	6512	bed lights, modification, Air Force pamphlet.....	5592, 7101
<i>see also</i> Contested elections.		Federal supply schedule.....	12688
<b>Elections Board, District of Columbia, create, hearings.....</b>	10032	fluorescent, ballasts, facts for industry.....	2372, 10903
<b>Electric apparatus and appliances:</b>		fluorescent, ballasts, mfg. shipments, facts for industry.....	5693
amplitude and phase control unit, CAA specification.....	230	production, facts for industry.....	2372, 10903
component parts, test methods, military standard.....	4765	shipments, facts for industry.....	2371, 10902
equipment components, Federal supply schedule.....	408	<b>Electric lines:</b>	
equipment industry, outlook for 1959 and review of 1958.....	1419	construction, description of units, specifications and drawings.....	8207
equipment inspection for maintenance.....	2181	rural lines (periodical).....	2916, 11461
<b>Government-owned inventions available for license.....</b>	11869	transmission line manual, mechanical design.....	13570
herald of electrical industry (USSR periodical), abstracts.....	10802	Electric machinery, <i>see</i> Machinery.	
household, foreign market survey in Chile.....	15449	Electric measuring instruments, study, production, mobilization planning.....	7173
medical equipment, plan to increase output in USSR.....	14963	Electric meters, resistivity measurements of electrical resistance in fishing investigations.....	7758
medical facilities, Army and Air Force, engineering manual.....	8959	Electric motors, integral horsepower electric motor industry, mid-year review and outlook for 1959.....	9690
Polish power system, basic equipment, rated data.....	669	Electric networks, Poland, automatic, economic effectiveness of investments and profitability, studies.....	6420
salvage of flooded equipment, procedure.....	13513	Electric ovens, <i>see</i> Ovens.	
<i>see also</i> names of special apparatus and appliances.		Electric plants, <i>see</i> Electric power plants.	
<b>Electric batteries, dry cell, facts for industry.....</b>	9716	Electric power, <i>see</i> Electricity.	
<i>see also</i> Storage batteries.		Electric power distribution, <i>see</i> Electricity.	
<b>Electric cables:</b>		<b>Electric power plants:</b>	
coaxial slotted line, UHF, CAA specification.....	240	and systems, maintenance and operation, Air Force manual.....	133
coaxial transmission, VSWR, wattmeter for measuring, CAA specification.....	234	Chinese People's Republic electric power production development.....	4992
<b>Electric conductivity, electricity through vacuum in high voltage generators, experiments.....</b>	5641	coal-fired, construction and operating costs study.....	13810
<i>see also</i> Electric resistance.		construction of equipment for building hydroelectric power stations in USSR handbook.....	5020
<b>Electric conductors:</b>		effect of heat from powerplant on thermal structure and evaporation of Lake Colorado City, Tex.....	6289
limitations of thermoelectric effect (lecture).....	5027	equipment manufacturing industry, rapid development in China.....	3676
semiconductor devices, USSR symbols, etc.....	9263	hydroelectric, construction cost and production expenses, supplement, 1957.....	4819
semiconductors, carbons and organic, Japanese studies.....	3790	maintenance and operation, Air Force manual.....	5579
<b>Electric controllers, for automatic feed handling systems.....</b>	13709	Poland, peak loads, methods of meeting demands.....	666
<b>Electric currents, electric current abroad, tabulation.....</b>	6216	Poland, utilization of existing systems for operation at higher voltages.....	1814
<i>see also</i> Eddy currents.		pumped storage for hydroelectric power, references.....	9530
<b>Electric energy, <i>see</i> Electricity.</b>		role of communications and telecommunications at station USSR.....	9261
<b>Electric engineering:</b>			
Journal of abstracts (USSR periodical), abstracts.....	10813		
Polish power, technical progress in development.....	855		
regulations.....	3245		
waste coal, production, etc., Poland.....	682		
<b>Electric equipment, <i>see</i> Electric apparatus and appliances.</b>			
<b>Electric fans:</b>			
multiple-fan systems, airflow changes, hazards, etc.....	6652		
psychrometer, history of development, etc.....	7838		

# JANUARY-DECEMBER

	Entry		Entry
Electric power plants—Continued		Electric wire and wiring—Continued	
Stalingrad, USSR, hydrometeorological servicing of construction	1952	high-temperature insulating inorganic coatings	4277
Electric program, see Rural Electrification Administration		high temperature insulation for wire	8373
Electric properties of sandstones of Morrison formation	14745	telephone, REA station installation handbook	17069
Electric prospecting by telluric currents method, USSR studies	7918	Electrical, see headings beginning Electric	
Electric railroads:		Electricians:	
Poland supply	675	aviation electrician's mate 1 & C, Navy training courses	15122
transition from steam traction on PKP, modernizing problems	1775	contracting industry, apprenticeship and training programs	8376
transport statistics, 1958	16502	examination, announcement	5735
Electric resistance:		mate 3 & 2, Navy training course	9428
directional, measurements in exploration for uranium deposits on Colorado Plateau	16463	Electricity:	
natural-state cores	7947	Bonneville power generation and sales statistics	15438
of waters, effectiveness of salt applications in reducing resistivities in electrofishing	3513	China, hydro development conditions	693
rapid and precise measurements by electrical resistivity meter in fishery investigations	7758	Chinese People's Republic, development of electric power production	4992
surveys for zinc-lead deposits, Racine-Spurgeon area, Newton County, Mo.	17706	cost analysis of generation of electric power in industrial plants	667
Electric resistors:		critical voltage levels as criterion for planning power systems	672
classification bulletin	9448	electric power balance in light of goals of long-range plan, USSR problems	6411
coaxial cable termination type, CAA specification	237	electric-power-distribution system, potash mine and refinery, Duval Sulphur & Potash Co., Carlsbad, N. Mex.	16697
Electric shock:		electrical phenomena in cortical terminals of analysts in dogs during formation of conditioned defense reflexes (USSR)	632
and its prevention	9484	electricity (USSR periodical), abstracts	10795
conditioned galvanic skin responses and alpha rhythm reactions in response to sound stimulation	1774	farm use, 1958	9580
preventive measures	7971	Federal power marketing problems, hearings	8896
Electric switchgear, manufacturing industry trade practice rules	420	fuel consumption for production	2548, 11086
Electric testing, electronic and electrical component parts, military standard	4765	generation from radiolabels	3171
Electric transformers:		herald of electrical industry (USSR periodical), abstracts	10802
Chinese Communist manufacturing industry, development	12890	hydroelectric power development, laws, compilation	15757
distribution, industry, outlook for 1959 and review of 1958	1416	hydroelectric power plants, State and municipal licenses, amend Federal power act—	
laminated, iron-core, CAA specification	232	law	12010
movement in international trade—pulse, self-made characteristics, Chinese study	11766, 9163	reports	7544, 12119
Electric utilities:		hydroelectric power, small projects exempt from licensing provisions of Federal power act, report	16053
cooperatives and municipalities, survey, small nuclear reactors feasibility	15434	hydroelectric power supply problems, upper Missouri Basin, hearings	17355
electric utility system loads	2549, 11087	international system joining Poland with other mid-European countries	668
sales, revenues and income	2553, 11091	mission of Austrian electric power personnel to USSR	13115
statistics, 1957—		national electric rate book	7706-11, 8904-98, 10102-104, 12648-654, 14632-635, 16329-334, 17408-410.
classes A and B privately owned companies	1625	Poland—	
classes A and B publicly owned systems	3467	demand for chemical industry, long-term development	687
statistics, 1958, classes A and B privately owned companies	17407	power demand anticipated in metallurgical industry	888
Electric waves:		power engineering and waste, coal production, etc.	682
electromagnetic, propagation in plasma, theory	5638	power generations, utilization of fuels	686
propagation in suspensions	8155		
propagation in tapered, bent and loaded waveguides, USSR study	17581		
Electric welding, see Welding			
Electric wire and wiring:			
exploded wire phenomenon, bibliography	3115		
Federal item identification guides for supply cataloging	349		
Federal supply schedule	6172, 9019, 10113		



# INDEX, 1959

	Entry		Entry
Electricity—Continued		Electricity—Continued	
Poland—Continued		TVA rates, relation to taxes.....	10622
power system		TVA's influence on electric rates....	10625
electrical equipment, rated		typical bills—	
data.....	669	cities of 2,500 population and	
load dispatching problems....	1806	more.....	404
peak loads, methods of meet-		residential, commercial, indus-	
ing demands.....	666	trial.....	16328
rural distribution systems, prob-		used by major industry group, and	
lems regarding extension....	671	by State, 1954-57, statistics....	11772
town electrification problems....	670	USSR—	
power and distribution equipment—		electrical industry, selected	
Federal item identification guides		translations.....	10236
for supply cataloging.....	349	power systems development.....	689
Federal supply schedule.....	6172,	prospects for development of	
9019, 10113		thermal power.....	12873
power for C-E facilities, Air Force		see also Thermoelectricity—also	
manual.....	4223	headings beginning Electric—	
power from water resource proj-		Electro.	
ects, cost allocations and rate-		Electrocardiograms, requirement for	
making, hearings.....	1551	1st class medical certificate, in-	
power production, transformation		clude in physical examination,	
and distribution in aircraft....	13764	amendment.....	3442
power sources, unconventional....	11686	Electrochemistry:	
power station equipment manufact-		mechanisms of noble-metal hydro-	
uring industry, rapid develop-		gen systems.....	16985
ment in China.....	3676	sollon principles and low-power	
power transmission for proposed		electrochemical devices.....	3999
intertie between Bonneville		Electrodeposition, see Electroplating.	
power system and facilities in		Electrodes:	
California, hearings.....	8894	electric-arc wind tunnel, prelim-	
pressurized water reactor and tur-		inary development.....	6793
bine generator plant for gener-		polarization.....	13799
ation, design.....	13810	Electroencephalogram:	
prices and price indexes, 1957....	893	and other biological currents, use	
principal electric facilities, map—		of encephalophone for audito-	
Alaska, Hawaii & Puerto Rico....	16342	ry examination, USSR.....	1812
Great Lakes States.....	16336	use in study of bioelectric activity	
North Central region.....	16337	of central nervous system....	14913
Northeastern region.....	16335	Electroencephalography:	
Northwestern region.....	16338	analysis of certain remote se-	
South Central States.....	16340	quels of ionizing radiation ac-	
Southeastern region.....	16341	tion in antenatal period of de-	
Southwestern region.....	16339	velopment, USSR study.....	13240
production in United States....	2551, 11089	analysis of effect of aminazine on	
prohibit withdrawal of facilities,		cerebral hemispheres, USSR....	633
etc., without consent of Fed-		clinical, USSR studies.....	3793, 3806
eral Power Commission.....	16051	relation to formation of conditioned	
purchased by REA borrowers, 1958,		reflexes in dogs.....	857
report.....	10575	research on temporary association	
REA cooperatives, accomplishments		with dampening of orientation	
etc. (address).....	13719	reflex in man, USSR studies....	3803
retail prices and indexes.....	2744, 11281	Electrolysis:	
rural—		aluminum units, intensification of	
contributions to economic devel-		working, USSR study.....	10268
opment of areas (remarks)....	1163	emphasis in Mines Bureau rare-	
electrification act of 1936, inter-		earth metals research.....	13330
pretation, report.....	16050	titanium, using soluble anodes, cer-	
electrification publications, price		tain production problems,	
list.....	17033	USSR study.....	17639
farms electrified with central sta-		Electrolytes, aluminum bath contain-	
tion service.....	17837	ing magnesium fluoride, phys-	
materials acceptable on system of		ico chemical properties, USSR	
REA borrowers, supps.....	11456	study.....	1745
permanent financing plan, propos-		Electrolytic cells:	
al (address).....	11612	contactless magnetic devices, for	
policy making guide for coopera-		system of control, USSR	
tives.....	5399	study.....	13264
preserving right to serve (re-		primary and secondary, theoret-	
marks).....	6927	ical design.....	10532-533
rural lines (periodical)....	2916, 11461	Electromagnetic fields, industrial hy-	
statistical bulletin.....	2912, 11457	giene problems in work with	
quarterly supplement.....	2914, 11459	high-frequency currents, USSR	
sales by States and geographic di-		studies.....	5024
visions.....	2552, 11090	Electromagnetic oscillographs used in	
sales statistics, TVA—		research and testing in aircraft	
annual report, 1958.....	6974	engineering, USSR.....	7894
monthly report.....	2967, 11515	Electromagnetic radiation, attenua-	
Soviet abstracts.....	1848, 1855, 3770	tion by sea water.....	8152
TVA power, 1958-59.....	16023	Electromagnetic waves, see Electric	
TVA power distributors report,		waves.	
1958.....	1214	Electromechanical technicians, ex-	
TVA power operations, brief finan-		amination announcement.....	11835
cial report, 1958.....	15226		

# JANUARY-DECEMBER

	Entry
Electrometallurgy, cold-mold are melting, air-cooled crucibles	5205
Electron microscopy, study of fractured surfaces of ship plate steels	5402
Electron tubes: and related products, manufacture earnings	13293
application in military electronic equipment, techniques, handbook	6086
Federal supply schedule	408
Electronic and Atomic Energy International Congress and Exhibition, see International Congress and Exhibition of Electronics and Atomic Energy.	
Electronic circuits: military standard	3409
preferred, Navy aeronautical equipment, handbook	4133
Electronic computers: analog computer simulators, principles	5352
analog investigation of inertia coupling in rolling maneuvers of airplane configuration using variable-incidence wing as longitudinal control	16861
computer program for solving 3-group diffusion equations for cylindrical reactors, analysis and discussion	3943
digital— catalog of technical reports, 1937-58	9677
for altitude autopilot, sampled-data techniques application	9369
great circle calculations	16984
high-speed electronic printer	15363
mathematical code for NAREC— effect on employment of clerical workers	13515
departmental edition	882
document edition	301
EV 80 3, coding operations, USSR	573
high speed, short range pressure forecasting, USSR	3648
IBM type 650, calculating gamma shield design for primary coolant sources	7139
NAREC calculation for vibration spectra and dispersion relations of face-centered cubic lattices	8142
Pogoda, USSR, design, operations, etc	1894
program of Public Roads Bureau Library— flow charts use	4032
library memorandum	2899
switching, application, etc	4033
RBU, calculation of reactor history including details of isotopic concentration, method	9659
use for mechanical translation of foreign languages, field survey	6878
use in medicine, USSR	17571
Electronic data processing systems: automation effect on employment of office workers— departmental edition	882
document edition	301
occupational outlook summary	9310
IBM 650 magnetic drum, general-purpose subroutines	17740
naval data handling system pickoff display converter	5349
notation system to use in transcribing technical and scientific texts	9451
occupations, job descriptions	4782
use in compiling Government statistics, hearing	9920

	Entry
Electronic equipment: administration and supply, Navy training manual	16973
Air Force, reliability prediction and test results	3119
CAA specification	227
component parts— environmental requirements, military standard	12584
Federal supply schedule	408
printed circuits, preparation of standards and test procedures	15364
test methods, military standard	4765
environmental requirements guide— excerpts	352
forced air cooling methods, design manual	3797
Government - owned inventions available for license	1166
instruction books, CAA specification	11869
machine for centralized control for manufacturing processes, USSR	224-225
manufacture and maintenance, Communist China	1822
packing, CAA specification	9218
power supply voltages, military standard	235
regulated power supply analysis and design	6089
reliability stress analysis, design guide	13574
see also Electronics.	2127
Electronic Materials Sciences Laboratory, status report	11662
Electronic mechanics, see Mechanics (persons).	
Electronic phase meters, see Raydist.	
Electronic scientists, examination announcements	5722, 5747
Electronic switches, fast scan, 36-position multiple channel switch, development	8144
Electronic technicians: examination announcements	252
Navy training courses	1485, 8477, 15519
Electronics: aerial communications, mapping and charting squadron, AF training standard	5338, 9429
aerial survey, mapping and charting squadron, A.F. training standard	4211
antenna gain, techniques for accurate measurement	4210
apparatus, used, handbook, USSR study	2057
band structure of solids by method of X-ray spectroscopy	17515
C-E publications and training, Air Force manual	11663
communications doctrine— basic concepts, missions and functions, Air Force manuals	8355
C-E charts, symbols, etc., Air Force manual	3099-3100
master index, Air Force manual	15345
planning and preparation of C-E plans, Air Force manual	7095
terminology listing, Air Force manual	3101
USAF, manuals	15346
3099-3104, 4220-23, 7095, 8355-56, 11668-669, 15345-346.	1338-40
communications policy, USAF, manual	11668
component parts for 500° C operation, research	11659
DOFL technical review	2872
electric power for C-E facilities, Air Force manual	4223

Do not order from index; see indicated entry

Page 193

# INDEX, 1959

	Entry		Entry
<b>Electronics—Continued</b>		<b>Elementary education:</b>	
industries—		children in grades 4–6, research	
midyear review and outlook,		findings, selected references	4781
1959	13826	Chinese People's Republic, develop-	
outlook for 1959 and review of		ment, etc.	6348
1958	1456	enrollment, teachers, school hous-	
industry's part in development of		ing, fall 1958, statistics	3419
space age (statement)	6797	Federal grants to States for	
PACAF basic bibliography	1355, 17227	schools, hearings	8905
publications, price list	2109	foreign languages in elementary	
radio engineering and electronics		school, references	8034
(USRR periodical), abstracts	10858	government publications covering	
repair jobs, prediction of success	1239	facts, list	5376
Ships Bureau manual	2126	kindergarten enrollments, public	
Soviet abstracts	1848, 1855, 3770	school systems, statistics	6096
structure of transition-metal com-		related bulletins and pamphlets,	
plexes, theoretical study	178	list	10082
superhigh frequency, lines of devel-		<b>Elementary particles, slow, role of</b>	
opment in Soviet Union	9233	strangeness in processes, re-	
trouble shooting ability, rigidity		marks	7136
measures, nonintellectual cor-		<b>Elements (chemical), see Chemical</b>	
relation study	3127	elements.	
use in medicine and biology, USRR		<b>Elements of general theory of com-</b>	
outcomes and prospects	17579	bined cybernetic systems,	
see also Electronic equipment—		Kiev	12951
Radioelectronics.		<b>Elevators, repairs, examination</b>	
<b>Electronics and Atomic Energy, In-</b>		announcement	17295A
ternational Congress and Ex-		see also Grain elevators	
hibition, see International		Ellaville, Fla., railroad accident	3637
Congress and Exhibition of		Ellipulos, Evagelia, relief	9072,
Electronics and Atomic En-			14123
ergy.		<b>Ellipsoids, potential of deformation</b>	
<b>Electronics laboratory, see Navy Elec-</b>		forces and its variation with	
<b>tronics Laboratory.</b>		rotation regime variation	10263
<b>Electrons:</b>		<b>Elliptic cones alone and with wings</b>	
capture of free excitons in molecu-		at supersonic speeds	5220
lar crystals by impurities,		Ellis Timber Co., relief	4528, 4688, 5775
USRR studies	4972	Ellison, Gladys M., relief	12090,
concentration in ionosphere, rocket			14416, 15571
measurements with aid of ul-		<b>Elm, see Dutch elm disease.</b>	
trashort wave dispersion in-		<b>Elopsaurus, see Ten-pounders.</b>	
terferometer, USRR study	10259	<b>El Paso, Tex:</b>	
densities, ionosphere	13771	bridge across Rio Grande, con-	
fast, energy dissipation, calcula-		struct, etc.—	
tions and tabulations	16941	law	13996
mono-electron and bi-electron bonds		reports	9850, 12435
in chemical adsorption, USRR		ground water resources of area	520
studies	9264	<b>El Salvador, see Salvador.</b>	
non-linear oscillations in cold		<b>Elytroderma needle blight, ponderosa</b>	
plasma, analysis	187	pine	16430
paramagnetic resonance spectra of		<b>EM series</b>	
Cr-aromatic compounds with		1602–4, 3430, 4784–87, 7678–79,	379–382,
various substitutes, USRR		8955–62, 10084–86, 12603–615,	
studies	3725	14598–599, 16264–266, 17378–	
production and removal in gases	11674	379.	
slowing down, energy spectrum re-		<b>Embankments, earth, manual</b>	8958
sulting	5311	<b>Emblems:</b>	
Stanford linear accelerator—		misuse to indicate Federal agency,	
construction, authorize, hearing	14101	amend U.S. Code—	
technical background and finan-		law	15656
cial aspects of project, hear-	14105	reports	5990, 12265
ings		<b>Embrittlement, see Brittle fracture.</b>	
<b>Electrophoresis:</b>		<b>Embryology:</b>	
counter, in enzyme-substrate sys-		All-Union Congress of Anatomists,	
tems, USRR studies	13241	Histologists, and Embryolo-	
paper, USRR studies	13241	gists, resolution	12990
properties of spores of <i>Aspergillus</i>		cancer in light of embryological	
niger	17805	data, USRR	865
zonal and diffusion precipitation in		questions of immunology of em-	
agar, investigation of cello-		bryogenesis, USRR study	6576
phane botulin toxins and ana-		research at Embryology Labora-	
toxins of type A and antitolu-		tory Institute of Oceanography	
linus sera	798	Academia Sinica	16553
<b>Electrophysiology, see Physiology.</b>		Soviet, 40 years' achievements	14949
<b>Electroplating, codeposition of tin</b>		ten-pounder <i>Elopsaurus</i> , early	
nickel plate from organic and		development	12685
mixed aqueous organic sol-		<b>Embryonic vaccine for prophylaxis</b>	
vents	10457	of spring-summer tick-borne	
<b>Electrorefining, see Smelting.</b>		encephalitis, USRR studies	5100
<b>Electrotherapy, high-frequency, de-</b>		<b>Embryos, white mice, protective ac-</b>	
velopment of equipment, USRR		tion of heroin during total ir-	
study	16008	radiation of mother	13252
<b>Electro-sleep therapy of arterial hy-</b>		<b>Emergencies, see Disasters.</b>	
pertension USRR	14875	<b>Emergency boards, report, Pan</b>	
		American World Airways, Inc.	12600

	Entry
Emergency operations, working draft for field test purposes, instructor's guide.....	7235
Emergency repatriation assistance act of 1959, <i>see</i> Repatriation.	
Emery County, Utah, uranium resources of Cedar Mountain area.....	16467
Emigration, <i>see</i> Immigration and emigration.	
Eminent domain, cropland acquired, preservation of acreage allotments, report.....	15854
Emission:	
spectral, of Inconel and type 321 stainless steel with different surface treatments.....	6792
spectrographic method for analysis of zinc-base die castings.....	6884
<i>see also</i> Thermionic emission.	
EML, <i>see</i> Engineering materials list.	
Emploe, Vicente S., relief.....	9978, 11949, 14127
Employee benefit plans:	
code of Federal regulations, sup- pensions and other trusts, exempt from D.C. laws relating to perpetuities, restraints on alienation, etc.—	6150
law.....	15612
reports.....	14211, 14460
welfare and pension plans disclosure act, new Labor Dept. responsibilities (address).....	7967
Employee incentive plans in farmer cooperatives.....	10092
Employee-retirement systems of State and local governments.....	5676
announcement and order form....	5674
Employee training:	
developing workers' abilities—	
identifying training needs.....	4241
inducting new worker.....	4240
pattern for instruction.....	4242
practicing instruction techniques (workshop).....	4243
electrical contracting industry ap- prenticeship and training pro- grams.....	8376
in-service training and Federal gov- ernment (address).....	13278
Labor Statistics Bureau program, report, 1959.....	16668
Mercer County, N.J., industrial programs.....	15371
on-the-job training program.....	7110, 11675, 15352, 17226
personnel, human engineering, 1934-58, catalog of technical reports.....	3174
postmasters, include under Govern- ment employees training act—	
hearing.....	5934
law.....	8518
reports.....	5869, 7587
<i>see also</i> Apprentices.	
Employees:	
definition of term, clarify, hear- ings.....	12564
nonagricultural establishments—	
index.....	3821
number.....	3822
under-used sources of workers.....	4056
Employees, <i>see</i> Airline employees—	
Farm labor—Government of- ficials and employees—Labor—	
Railroad employees— <i>also</i> names of departments, etc., where employed.	
Employees' Compensation Appeals Board, decisions, 1956-58.....	12601
Employer-employee relations, <i>see</i> In- dustrial relations.	

	Entry
Employers:	
cooperation to help youth stay in school.....	16654
hire the handicapped.....	13282
Employers' liability and workmen's compensation:	
agricultural workers, status, etc....	14969
longshoremen's and harbor work- ers' compensation act, 3d party liability, amend—	
law.....	14026
reports.....	5868, 10002
publications, price list.....	9465
radiation hazards, injury and com- pensation to employees in atomic energy installations—	
hearings, summary analysis.....	15750
selected materials.....	4422
radiation hazards and workmen's compensation, hearings.....	17314
State law, comparison.....	5178
workmen's compensation problems, 1958.....	13280
Employer's tax guide.....	4952
Employment:	
act of 1946, amend—	
answers to inquiries.....	15945
hearings.....	7467
report.....	9848
views.....	9848
adult Indians, amend act, report—	
age barriers, challenge to all of us (address).....	9275
Alaska job information.....	4111
aliens in Federal service, consoli- date and revise laws, report.....	12395
applicants for 1959 census of ag- riculture, general information.....	8462
automation effect on opportuni- ties—	
departmental edition.....	882
document edition.....	301
occupational outlook summary.....	9310
average, at manufacturing estab- lishments for industry groups and selected industries.....	9725
benefits for VA employees.....	8265
BLS statistics, effect of revised in- dustrial classification system.....	1973
California, shifts in composition.....	13299
certificates, annulment or with- drawal under fair labor stand- ards act.....	1226
certificates, where issued.....	9283
certification offices, location, atmosphere, etc., checklist.....	10399
city employment, 1958.....	5700
coal mines, monthly report.....	2796, 11340
coking industry, injury experience, 1957, analysis.....	16695
college graduates, women, class of 1957.....	8274
combined employment and unem- ployment release.....	2354, 2727, 10885, 11265, 11287
construction industry hiring pro- cedures (address).....	5321
data relating to coal mining injury experience.....	919
education for employment (ad- dress).....	1963
employment and earnings (pe- riodical).....	2738, 11275
employment and earnings, recent developments in primary iron and steel industry.....	8010
employment, hours and earnings, monthly release.....	2750, 11287
employment report.....	7982
Federal—	
civilian workers covered by un- employment compensation.....	3425
jobs overseas.....	3230
monthly report.....	2402, 10931
openings for college graduates....	8481



# INDEX, 1959

Entry	Entry
Employment—Continued	Employment—Continued
Federal—Continued	United States, effect of private foreign investment, hearings..... 16196
publications providing helpful facts..... 2399, 10928	workers covered by State unemployment insurance laws..... 2500, 11031
fuel industries, minerals yearbook chapter..... 16691	young workers—
Government employment series..... 4361, 5700	during recession and recovery..... 9314
governmental, census of governments, 1957..... 203	facts about work and labor laws..... 17666
growth and price levels—	summer jobs for students—
hearings..... 7319, 8525, 12031, 15754, 17317	general information..... 7676
questions on monetary policy and debt management..... 15755	programs for community groups..... 7972
study paper..... 15756, 17318	youth, list of publications..... 5165
historical and comparative rates, hearings..... 8525	see also Child labor—Discrimination in employment—Farm labor—Government officials and employees—Handicapped—Labor—Occupations—Women—Work.
labor recruitment in depressed rural area..... 886	Employment security activities, see Unemployment insurance.
local government in standard metropolitan areas, census 1957..... 203	Employment Security Bureau:
announcement and order form..... 1460	appropriations, 1959, supplemental, law..... 7301
manufacturing division..... 9298	BES series..... 1600, 8950, 16262
manufacturing industries since 1947, trends..... 9300	releases..... 2507, 11038
messengers, under fair labor standards act..... 1223	Veterans Employment Service, State and assistant State veterans, employment representatives, examination announcement..... 3234
mineral industries, minerals yearbook chapter..... 17675	Employment security review..... 2501, 11032
multiple jobholding, July 1958..... 7193	index, 1958..... 8952
nonagricultural establishments—	Employment certificates, place in administration of child-labor law..... 7973
index..... 3821	Employment offices, farm labor interstate recruitment referral standards, authority of Sec. of Labor to establish, opinion of Attorney General..... 16637
number of employees..... 3822	Employment Policy, Government, President's Committee on, see President's Committee on Government Employment Policy.
nonfarm jobs in factories, declining share, 1946-57..... 1970	Employment Service, how USES helps small businesses..... 9487
nonmanufacturing industries, changing shares of jobs since World War II..... 7980	Encephalitis:
older worker problems—	arthropod-borne, procedures for investigating outbreaks, guide..... 3558
expert views summary..... 16216	spring-summer tick-borne, embryonic vaccine for prophylaxis, USSR studies..... 5100
hearings..... 12561	Encephalogram, see Electroencephalogram.
older workers, record of employers' experience..... 8950	Encephalography, see Electroencephalography.
Ordnance Bureau opportunities..... 2871, 11411A	Encephalomyelitis, infectious, equine, in 1958..... 8302
outlook, aircraft, missile and spacecraft field..... 9297	Encephalophone, device for auditory examination of encephalogram and other biological currents, USSR..... 1812
Poland, problems..... 853	Enclosures, cocooning for storage of quartermaster supplies..... 10578
present trends after 1957-58 recession (address)..... 1975	ENCR series..... 17287
relation to cyclical turns in hours of work..... 9321	Endive, market diseases..... 8306
seamen on U.S. flag ships—	Endocrine glands, see Endocrinology.
departmental edition..... 3812	Endocrinology:
document edition..... 3268	All-Union Institute of Experimental Endocrinology, proceedings of annual scientific sessions, Mar. 23-26, 1959, thesis..... 16612
security research projects..... 8951	higher nervous activity after removal of adrenal medulla, USSR studies..... 1810
self-employed individuals' retirement act of 1959—	transplantation of endocrine glands, USSR study..... 3738
hearings..... 17352	USSR Academy of Soviet Socialist Republics Academy of Medical Sciences conferences on endocrinological problems..... 815
report..... 4574	
self-employment and social security..... 6871	
State and assistant State veteran representative, examination announcement..... 3234	
State and industry, statistics, guide..... 7982	
State and local government employment and payrolls..... 2758, 11297	
State Dept., information..... 13596	
State distribution, 1958..... 4361	
State right-to-work laws..... 14968	
State veterans representatives, examination announcement..... 8486	
student workers, under fair labor standards act..... 5459	
students and other young persons, 1958..... 9707	
summer, in Federal agencies..... 260	
trends in electrical machinery industry..... 9299	

# JANUARY-DECEMBER

Entry	Entry
Endodontics, root canal therapy of pulpless teeth, outline course of basic principles, etc. 8138	Engineering Command, report, ENCR series 17287
Endowments, college and university investments, survey 12593	Engineering materials list 4325-27, 11741, 17264
Enemies of forests 3559	Engineering Psychology Branch, bib- liography 16981
Enemy property: return, amend trading with the enemy act— 17360	Engineering schools, undergraduate curricula 373
hearings 7562	Engineering test reactors, <i>see</i> Reac- tors (atomic).
Energetics of nuclear reactors atomic energy nuclear energetics 1379	Engineers: Air Force opportunities 4260
Energy, <i>see</i> Atomic energy—Electric- ity—Force and energy.	career opportunities— Air Research and Development Command 147-148
Engelmann spruce, <i>see</i> Spruce.	civilians in Army Department 15390
Engine fuel, <i>see</i> Fuel.	Federal government 3214, 15531
Engine command management sys- tem, divisions and districts 4784	examination 15530
Engineer Research and Development Laboratories, <i>see</i> Army Engi- neer Research and Develop- ment Laboratories.	Housing and Home Finance Agency 525
Engineering: Czechoslovakia, production struc- ture, efficiency improvement 801	census, hearings 12309
degrees defended at USSR educa- tional institutions, disserta- tions list 10384, 16545, 16634	combat, MOS proficiency test aid 3138
dissertation for degrees at USSR educational institutions, lists 6625, 17574, 17649	employment in American industry, Jan. 1957 2075
drawings, types and definitions, military standard 7660	examination announcements 5722, 5747
education, national goals and needs, report of President's advisory committee 10556	labor market conditions, bi- monthly 2499, 11030
engineering for youth (USSR peri- odical), abstracts 8435	President's Committee on Scien- tists and Engineers— final report 15154
engineering monographs 9478	2d interim report 15155
enrollments and degrees, 1958 12591	program for national information on scientific and technical per- sonnel 15119
geological characteristic of cover deposits of Tom' Kolyvan Zone 10264	Soviet biographic information 17624
geology of eastern Siberia, USSR studies 6602	vibration manual 8213
heat power engineering (USSR periodical), abstracts 8436, 10800	<i>see also</i> Chemical engineers—Mar- ine engineers—Operating en- gineers—Radio engineers— Sanitary engineers.
PACAF basic bibliographies 7111	Engineers Corps, Army: manuals 379-382, 1602-4, 3430, 4784-87, 7678-79, 8955-62, 10084-86, 12603-615, 14598-599, 16264-265, 17378- 379.
power engineer (USSR periodical), abstracts 10853	military security and foreign rela- tions, standard operating pro- cedures, EM manual 8955
power engineering bulletin (USSR periodical), abstracts 10854	report, 1958, civil works activi- ties— departmental edition 6103, 12602
public health engineering ab- stracts 2897, 11439	document edition 5796, 12038
quarterly engineering seismology bulletin 10939	technical services, U.S. Army in World War II, troops and equipment history 8025
report series 13577	Engineer's digest (periodical) 2413, 10944
research, relations between educa- tional institutions and indus- trial organizations 9491	Engines: accessories, Federal supply sched- ules 6171
services in trade unions in Western Europe, seminar 16662	gasoline— generator set PU-450/G, tech- nical manual 8389
statistical, proceedings of annual symposium, May 7-8, 1958 17288	parts, Federal supply schedule 6170
study on reactor shielding 1382	standardized, military handbook 355
survey, Ob' River in valley, char- acteristics, USSR study 6417	<i>see also</i> Diesel engines—Engines (aircraft)—Turbines.
<i>see also</i> Agricultural engineering— Chemical engineering—Civil engineering—Electric engi- neering—Hydraulic engineering— Material engineering— Naval petroleum reserves— Nuclear engineering—Radio engineering.	Engines (aircraft): air film cooling applied to adiabatic wall by means of axially dis- charging slot 13444
Engineering aids: examination announcement 3207	airworthiness— civil aeronautics manual 12631
radio, examination announcement, suspension notice 5748	civil air regulations amend- ment 16300
Engineering and design, manuals 379-382, 1602-4, 3430, 4785-87, 7679, 8956-62, 10084-86, 12603-615, 14598-599, 16264-265, 17378- 379.	atomic engines in aviation, appli- cation 4258
	axial-flow compressor blade rows, method for predicting off-de- sign performance 15084
	facilitate financing— law 11968
	reports 7560, 8701
	facts for industry 2371, 5690, 10902

# INDEX, 1959

Engines (aircraft)—Continued	Entry	Engines (aircraft)—Continued	Entry
jet—		ramjet—continued	
and airframe, arrangements for		supersonic free-jet facility for	
increased range-----	6718	full-scale investigations, eval-	2025
exhaust noise from slot nozzles-----	15080	total-pressure-recovery character-	
exhaust temperatures, thrust and		istics of 15° semicone movable-	
drag characteristics of conver-		able-cone variable-geometry in-	
vergent-divergent nozzle-----	6701	let at free-jet Mach numbers	
noise, effect of forward velocity		1.62, 2.00, 2.53 and 3.05-----	5249
on sound-pressure level in		twin-engine missile, flight and	
near noise field-----	17739	preflight evaluation of auto-	
noise-reduction nozzles, investi-		matic thrust-coefficient control	
gation-----	8070	system-----	3912
responses to abrupt throttle		two-dimensional, supersonic, lin-	
steps as determined from		earized flow with heat addi-	
flight tests-----	16880	tion, analysis of theory-----	3922
surfaces, boric oxide deposits,		with convergent-divergent ex-	
equilibrium thickness, study-----	1017	haust nozzle, flight investiga-	
thrust reverser effects on aerody-		tion of pentaborane fuel in	
namic characteristics-----	16899	rocket-----	16790
one-spool ducted fan designs, lim-		rocket—	
itations, imposed by compres-		high performance 250-pound-	
sors and turbines at flight		thrust utilizing coaxial-flow	
Mach numbers 0. 0.6, 0.8-----	16797	injection of JP-4 fuel and	
piston, summary of VGH and V-G		liquid oxygen-----	17753
data, 1947-58-----	16876	JP-4 fuel and liquid-oxygen, ex-	
ramjet—		perimental altitude perform-	
aerodynamic control of super-		ance-----	9382
sonic inlets for optimum per-		propellant vaporization as crite-	
formance-----	6711	rion for design-----	16895
afterburning as means of vary-		shock-positioning method of con-	
ing effective exhaust nozzle		trol, study-----	2038
area, investigation-----	3885	special features in adjustment of	
combustion, aerodynamic flame-		engines TU 104-----	1798
holders capabilities for after-		specifications-----	4799, 11047
burner application, exploratory		stall and flame-out resulting from	
investigation-----	9367	firing of armament-----	16788
combustion, use of flame-im-		strut-mounted, influence of fuse-	
mersed blades to improve lim-		lage-mounted rocket boosters	
its and efficiency-----	13392	on flow field at inlet and on	
drag data, with double-cone in-		diffuser performance-----	966
let in free flight at Mach num-		T-56 turbopropeller, crash-fire	
bers 0.7 to 1.8-----	980	protection system using water as	
effect of immersed surfaces in		cooling and inerting agent-----	9385
combustion zone on efficiency		turbine—	
and stability-----	16775	combustion screech and method	
exhaust scavenged in Mach 3.1		of its control-----	13397
supersonic tunnel-----	3895	variable primary-air admission at	
flight Mach number control, ap-		high altitude performance-----	13402
plication of oblique-shock		turbojet—	
sensing system-----	6707	air-cooled, component perform-	
free-flight performance at Mach		ance determined analytically	
numbers from 0.80 to 2.20-----	3890	for range of cooling-air weight	
free-jet facility, operating experi-		flows-----	13396
ence and problems encountered		air-cooled turbine blades, static	
during operation-----	1015	sea-level performance-----	6709
growth of disturbances in flame-		aircraft crash fires, origin and	
generated shear region-----	2019	prevention-----	9359, 16742
high-energy fuels combustion per-		altitude performance of 16 flame-	
formance-----	5216	holder and fuel-system config-	
nose inlets, force and pressure		urations installed in tail-pipe	
characteristics-----	5225	burner-----	16767
performance—		altitude performance of tail-pipe	
analysis including effects of		burner equipped with variable-	
component changes-----	15052	area exhaust nozzle using sev-	
comparison at supersonic		eral fuel systems and flame-	
speeds of inlets spilling ex-		holders-----	16765
cess flow by means of bow		altitude-starting limits, tech-	
shock, etc-----	5230	niques for improving-----	2024
effect of angle of attack and		analysis of off-design operation-----	2029
exit nozzle design-----	5226	axial-flow, altitude investigation	
in altitude wind tunnel at		of thrust augmentation using	
Mach numbers of 1.35, 1.50,		water-alcohol injection into	
and 1.73, free-jet investiga-		combustion chambers-----	6696
tion-----	5223	axial-flow, effect of uneven air-	
in supersonic wind tunnel at		flow distribution to twin in-	
zero angle of attack, investi-		lets-----	3886
gation-----	5224	axial-flow, unequal air-flow dis-	
rocket-boosted, air-launched 16-		tribution from inlet ducts, ef-	
inch diameter, free flight per-		fect on performance-----	16779
formance at Mach numbers up		boric-oxide vapor pressure on	
to 2.20-----	3887	pentaborane performance in-	
6.3 inch diameter, preflight tests		fluence-----	1009
and flight performance-----	3911		
starting and performance char-			
acteristics-----	13394		

Engines (aircraft)—Continued	Entry	Engines (aircraft)—Continued	Entry
turbojet—continued		turbojet—continued	
boron-modified S-816 alloys performance at 1650° F.....	6774	J47D prototype with exhaust nozzle.....	16766
cermet turbine stator blades, use, evaluation.....	5283	J47-GE-17, afterburner design variables, altitude evaluation.....	16771
combined operations with and without afterburning for minimum fuel consumption in level flight.....	16921	J71-A-2(600-D1) altitude performance.....	13404
combustion, aerodynamic flameholders capabilities for afterburner application exploratory investigation.....	9367	leading-edge cracks in buckets, origin and development.....	6723
combustion reaction mechanisms.....	5272	minimal maneuvers of high-performance aircraft in vertical plane.....	16924
combustor having reduced pressure losses and using propane fuel, performance.....	2028	Navy jet mix and JP-3 fuels, performance comparisons in tubular and annular combustors.....	963
combustor performance, axial-slot air admission for controlling gas-temperature distributions.....	13389	operating at inlet temperatures up to 2580° R, etc., air-cooled turbine rotor blade temperatures.....	6715
combustor with hydrogen peroxide injection for thrust augmentation, performance.....	2039	operating conditions cause thermal-fatigue cracks in turbine buckets.....	8079
combustors, analysis of total-pressure loss and airflow distribution.....	8064	operation tests using 50-50 mixture of JP-4 and tributyl borate as fuel, results.....	971
combustors, total-pressure loss and airflow distribution.....	3937	optimum flight trajectories, approximate solutions.....	16922
compressor bleed system for rim cooling turbine wheel, evaluation.....	6699	performance comparison at supersonic speeds of inlets spilling excess flow by means of bow shock, etc.....	5230
compressor, Reynolds number phenomena.....	15054	performance when heat from liquid-cooled turbines is rejected ahead of, within, or behind main compressor.....	3899
control signals and nature of stall and surge behavior, investigation.....	987	pilot chamber installation on pair of tubular combustors, performance.....	978
cooling air requirements of suitable corrugated insert-type turbine blades.....	2040	propulsion of supersonic bombers, analysis.....	13398
cooling, effect of thermal shock induced by external water-spray on turbine blades, investigation.....	1006	prototype model J47D # RX 1-1 and XR 1-3, with integrated electronic control, altitude operational characteristics.....	961
counterrotating two-spool off design performance, investigation.....	992	shock positioning control systems for variable-geometry inlet in combination, investigation.....	989
dynamics of supersonic inlet with adjustable bypass.....	5239	single characteristics of compressor equipped with variable inlet guide vanes in turbojet engine.....	990
effect of inlet baffles on rotating stalls, etc., of axial-flow compressor.....	16785	single stage turbine with downstream stator, design and experimental investigation.....	3901
effects on adjacent surfaces at free-stream Mach number 1.80, experiments relating to problems of simulation.....	17731	stability of full-scale supersonic inlet, comparison of effect of cold-flow configurations.....	3902
factors affecting performance of single-stage turbines having rotor-tip discharge of cooling air.....	10473	stresses in simple panels subject to near noise field.....	8063
flame-holder and fuel systems configurations in short converging afterburner altitude investigations.....	2023	thermal-stress fatigue cracking of turbine buckets.....	16917
free-flight investigation at transonic speeds of drag coefficients.....	1058	thermodynamic properties of products of hydrogen combustion, methods for using for cycle analysis and design.....	10474
high-pressure-ratio single spool acceleration as determined from component performance characteristics.....	5228-29, 16781	thrust augmentation at altitude by combined ammonia injection into compressor inlet and afterburning.....	6697
hydrogen peroxide hot-jet simulator for wind-tunnel tests.....	5262	thrust augmentation by combined compressor coolant injection and tail-pipe burning, investigation.....	962
ignition, effects of ignitor design and ignitor-gap environment.....	13393	thrust measurement, methods applicable to flight installations.....	2036
inlet-annulus area blockage effect on performance and stall characteristics of axial-flow compressor.....	5232	total-pressure loss in parallel-walled combustors.....	1013
J34, continuous normal-shock positioning control on by pass of supersonic inlet.....	1003	tubular combustor, fuel properties effect on linear temperatures.....	5248

# INDEX, 1959

	Entry		Entry
Engines (aircraft)—Continued		Entomology Research Division:	
turbojet—continued		insecticide recommendations for	
turbine blades, heat transfer		control of insects attacking	
and durability data of im-	993	crops and livestock, 1959 sea-	4167
proved designs		son	13721
2-spool performance, effect of		supplementary sheet	
over-all compressor pressure	16783	Entrainment of non-volatile solids in	
ratio division		sublimation at reduced pres-	3159
used as pumps for boundary layer		sure	
control, effects of engine per-	16787	Entropy:	
formance		cerous fluoride, at 298.15°K.	17708
variable-area auxiliary air-intake		low temperature heat capacities	
system tested at Mach num-	10468	and entropies at 298.15° of	10459
bers from 0 to 1.3		cerium and thorium sulfides	
water-injection configurations for		spinel minerals at 298.15°K, sum-	16726
turbine-blades spray cooling	972	mary	
investigations		Enumerators:	
with variable-area exhaust noz-		1959 census of agriculture—	
zle, engines and control limits	964	crew leader's training guide	13852
effect on steady-state and		instruction book	13858
transient performance		qualifications and responsibili-	8462
ties		Envelopes:	
XJ40-WE-6, rotor- and stator-		dimensions, feasibility of spec-	
blade modifications effect on		ified length and width for 1st	
surge performance	965	and 3d class mail, Post Office	
original production compres-	968	Dept. report	16223
sor		printed and plain, Federal supply	
redesigned compressor		schedule	413, 9025
turbo-propeller—		Environment:	
designed for minimum noise,	9372	Alaska forest, effect of wild fires	
flight performance		(remarks)	16672
limitations imposed by compres-		electronic parts requirements	
sors and turbines at flight		guide	352
Mach numbers of 0, 0.6, 0.8,	1012	Environmental and chemical haz-	
analysis		ards (series)	14970
noise survey under static condi-	8084	Enzymes:	
tions		degradation of cellulose and wood,	
2-spool, analysis of character-	15053	literature review	485
istics		fish tissue study	433
water-bromotrifluoromethane		Eocene period, lower, phosphatized	
crash fire protection system	15078	Glovigerina ooze from Syl-	
underwing heat addition, analysis		vania Guyot	9119
and evaluation	8077	Eosaurus copel Williston, see	
Westinghouse XJ 34-WE-32 en-		Reptiles,	
gine, afterburner performance		Ephemerides:	
and fuel system coking inves-		American ephemeris and nautical	
tigation	5227	almanac, 1960	2077
see also Rockets—Turbines.		ephemeris of sun, etc., 1959	905
Englemann spruce, see Spruce.		ephemeris of sun, etc., 1960	17669
Englezos, Theopli, relief, 9963, 12070,	13920	solar eclipse, comments	11672
English Channel, lights and fog sig-	9133	Epidemics, see names of contagious	
nals, list		diseases.	
English language:		Epidemiology:	
arts in American high schools	3413	academic experience and methods of	
Navajo-English dictionary	531	improving teaching in medical	
Engraver beetles, see Beetles.		institutes, USSR	17567
Engraving and Printing Bureau,		sanitary-epidemiological matters,	
worker, examination announce-	13881	USSR study	14853
ment		scientific work of sanitary-epidemi-	
Enid Dam, flood-control conduit,		ological stations in USSR	1940
Yocona River, prototype hy-	12618	USSR congress, summary	816
draulic tests		yellow fever	830
Enlisted personnel, see Army.		Epileptics:	
Enlistment, see Recruiting and en-		private institutions, 1956	17776
listment.		public institutions, 1956	15094
Enriching the added years	9131	Epizootic and zoonotic diseases and	
Enrico Fermi reactor, see Reactors		their control in Poland	1819
(atomic).		Epoxy resins, see Resins.	
Enrollment, see Colleges and univer-		Equal Job Opportunity under Govern-	
sities—Elementary educa-		ment Contracts Commission:	
tion—High schools—Schools.		establish—	
Enteritis, death rates by age, color,		hearings	9918
and sex, 1949-51	15106	recommendations of the Pres-	
Enterprise (U.S.S.):		dent	3289
cruise 1842-44, journal of Daniel		report	15806
N. Johnson	6934	Equal job opportunity works every-	
Entomology:		where	8179
invertebrate morphology, papers	9495	Equality of Opportunity in Employ-	
medical—		ment Commission, establish,	
manual	1981	hearings	9918
USSR achievements, 1917-57	16510	Equations:	
radioisotopes, uses, list of refer-		atmospheric dynamics, numerical	
ences	9665, 15419	solution	3788



# JANUARY-DECEMBER

	Entry		Entry
Equations—Continued		Erie Railroad, accident.....	3634
balance, and its use in numerical forecasting of baric fields, Czechoslovakian studies.....	3723	Erosion, soil conservation, publications, price list.....	9463
continuity in geology with applications to transport of radioactive gas.....	14744	see Soil erosion.	
crystallization in binary and ternary systems, USSR study.....	13273	Erosion control, see Soil erosion.	
feedback control systems, nonlinear compensation functions for effects of saturation.....	13449	Erythrocytes, see Blood.	
heat transfer, solution that permits complete machine calculations from transient temperature measurements.....	9383	Escapes, see Refugees.	
nonlinear terms, calculating effect in solution of problems on short-range pressure and temperature forecast.....	1762	Escarole, market diseases.....	8306
stability of horizontal fluid layer with unsteady heating from below and time-dependent body force.....	17765	Escondido, Calif., population, special census.....	1468
variational derivatives in problems of statistical physics and quantum field theory.....	1380	Escorts:	
vorticity transfer, evaluation of approximation errors in solution by method of successive approximations, USSR studies.....	1793	dependents of uniformed services, travel allowances—	
wave, calculating fundamental solutions with tables.....	16907	law.....	14015
Equations of motion:		reports.....	4599, 12479
ballistic missiles entering earth's surface at high supersonic speeds.....	6682	Escudo de Veraguas Island:	
differential, helicopter rotor and propeller blades, errata.....	3882	birds.....	10584
linearized pitch, roll, and yaw, utilization in investigation of stability of flat spins.....	10499	thick-spined rat, new form.....	10585
mean velocity distribution of boundary layers.....	5278	Eskimos:	
orbiting vehicle stability.....	16897	north Alaskan, ecology and society—	
perturbed airplane, block diagrams.....	17761	departmental edition.....	8375
Equilibrium:		document edition.....	8529
chemical study of system, potassium carbonate, potassium bicarbonate, carbon dioxide, and water.....	10458	Espionage:	
diagrams for liquid and crystalline phases, ideal types, USSR studies.....	9256	communist patterns, report... 1557,	7334
ferrous-ferric, and redox potentials, survey.....	17494	additional copies, report.....	7365
form of negative crystals, USSR studies.....	10346	Kremlins organizations, testimony of Petr S. Deriabin.....	5936
moisture content of fiber flax.....	7071	laws, administration, investigation—	
stability of hydromagnetic equilibria with helically invariant fields.....	4318	expenses, report.....	16087
toroidal system.....	15413	extension, report.....	3366
Equipment operators, 3 & 2, Navy training courses.....	8139	laws, extend application, report... 4556	
Equipment specialist, examination announcement, discontinuance notice.....	5739	see also Spies.	
Equipments, see Aeronautical supplies—Dental supplies—Hospital apparatus and supplies—Medical instruments and apparatus—Medical supplies—Military supplies—Production equipment—Veterinary instruments and apparatus.		Estate tax, see Inheritance and transfer tax.	
ER series..... 1405-56, 3178, 5667-5671		Esters:	
Eremenko, Benedict, relief.....	4680	chloroacetic acid, tests as insecticides and miticides.....	7031
Ergot, alkaloid content and distribution in USSR.....	12935	nitrate and nitrite, mass spectra study.....	5361
Erickson, Grace M., relief.....	4504, 15576, 16017	Estes, Lourene O., relief.....	9828, 14418
Erie, Lake, small craft, gale and whole gale warning facilities, 1959.....	8271	Estimations of wind erodibility of farm fields.....	4190
		Estonian Soviet Socialist Republic, Academy of Sciences news, abstracts, technical and physicomathematical sciences series.....	10834

# INDEX, 1959

	Entry		Entry
Euratom, <i>see</i> European Atomic Energy Community.		Europe—Continued	
Eureka, Calif., geology and groundwater features of area.....	9127	USSR territory—	
Eureka, Nev., geochemical prospecting in Bullwacker mine area studies.....	506	weather, expected general characteristics, Apr. 1958.....	1918
Eureka to Point Conception, Calif., coastal warning facilities chart.....	15241	weather forecast, Apr. 1958.....	1921
Europe:		west coast, lights and fog signals, list.....	528, 4936, 12778, 17498
arms control problems, handbook.....	10035	Western—	
conference of communist countries on problems of hydrometeorology.....	12911	agricultural production and food consumption, recent developments.....	6205
east European accession index.....	2765, 11305	cargo containers for cargo ships, survey and analysis.....	3836
East-West trade in food.....	6206	civilian defense, report.....	7387
Europe:		economic policy, report on conferences.....	9795
eastern—		research studies.....	1186, 13601
agricultural economies, notes.....	16396	currently in progress list.....	2144
research studies—		recently completed list.....	2144
currently in progress, lists.....	13598	survey of United States Information Service operations, report.....	16189
recently completed compilation.....	2140	television aspects.....	5929
scientific information reports.....	2378, 10909	trade with U.S. 1957, and comparisons with 1955-56.....	4895
selected economic translations.....	725, 727, 730, 734, 753-754, 777-778, 780, 1831, 1833, 1836-37, 5057, 58, 5063-64, 5066, 5083-84, 5095, 6449, 6458-59, 6474, 6482, 6504, 6505-6, 6535, 6554, 6568, 6574, 10283, 10293-294, 10300, 10306, 10322, 12999, 13003, 13015, 13021, 13028, 13037, 13048, 13061, 13069, 13080-81, 13101-102, 13110, 13113, 13128-129, 13154, 13161, 13167, 13175, 13185, 13200, 13211-212, 13220, 13227-228, 14877, 14879, 14884, 14888, 14895-896, 14901, 14907, 16563, 16566, 16570-571, 16583, 17583, 17590-591, 17597, 17608-609, 17618.	United States trade.....	10160, 17452
selected political and sociological translations.....	598, 1758, 3650, 3656, 4970, 4985, 4997	<i>see also</i> headings beginning European.	
selected sociological translations.....	5001, 6351, 6375, 6395, 10220, 10227, 12811, 12821, 12831, 12852, 12867, 17560.	European Atomic Energy Community: establishment of joint atomic energy program, agreement—	
European and British Commonwealth series.....	2139, 6946-47, 10592, 17087, 17853	hearings.....	7317
flight information, corrections.....	2304	text.....	8237
foreign relations of U.S., 1941—		proposed agreements, and legislation to carry out program, hearings, index.....	282
departmental edition.....	9503	European Common Market, <i>see</i> European Economic Community.	
document edition.....	8527	European Economic Community:	
irradiation of fruits and vegetables.....	8393	facts of interest (address).....	8494
military bases, inspection report.....	15940	problems and opportunities presented by Common Market (address).....	8493
oil shale and sale oil patents, and classification, 1946-56, index.....	14989	proposed uniform external tariff revisions, effect on United States fishing industry.....	4852
popular culture and research, significance for U.S.....	4168	United States and European Common market.....	17853
power system joining Poland and other mid-European countries.....	668	European pine moth, <i>see</i> Moths.	
President Eisenhower's trip, Aug.-Sept. 1959.....	17090	European Productivity Agency Mission, restrictive business practices conference, proceedings.....	10049
program for peace (address).....	10594	European War, 1914-18, veterans, <i>see</i> , in main alphabet, Veterans.	
radio facility charts.....	2308, 10758	Europium isotopes, Eu-155, radionuclide, occurrence in Rongelap Atoll soil.....	4333
supplement, special notices.....	2308A, 10759	Eutectics, aluminum-silicon.....	15131, 16989
southern, military personnel of U.S. ordered to task force, Italy, helpful hints, D.A. pamphlet.....	15385	Euteriadou, Athena N., relief.....	5952
tide tables.....	7250	Euxenite, carbonate residue, extraction of yttrium and rare-earth elements, procedures.....	17712
trade union research and engineering, services.....	16662	Evacuation, wounded, design and construction of ambulance train for operation on broad-gauge foreign railroads.....	6979
United States Army in World War II, logistics.....	17673	Evaporated milk, <i>see</i> Milk.	
		Evaporation:	
		agricultural fields, determination of total magnitude by heat balance method, USSR study.....	6581
		effect of heat from powerplant on thermal structure of Lake Colorado City, Tex.....	6289
		studies (series).....	6289
		volatilization of tin chloride from Bolivian slimes.....	6672

# JANUARY-DECEMBER

	Entry		Entry
Evaporators, maple-sirup, scale, how to remove-----	3051	Executive Papers, Joint Committee on Disposition of, reports-----	4614-15, 5863, 7375, 7396, 8635, 8699, 9864, 9887, 12188, 14302-303, 15915, 15917.
Evasion and survival problems and predictions of crew performance-----	4265	Executive privilege and freedom of information, hearings-----	14370
Everglades, Port : engineer report on harbor-----	386	Executives : Federal Government executive personnel policy (address)-----	9274
departmental edition-----	288	philosophy, problems, and practices, bibliography-----	13674
Everglades City, Fla. : land exchange with Collier Development Corp.-----	15637	women, requirements for success (address)-----	8278
law-----	15881, 16068	Exemplary rehabilitation certificates, award to certain discharged service personnel, report-----	8652
reports-----	15881, 16068	Exhaust gas, <i>see</i> Gases.	
Everglades National Park : land exchange-----	15637	Exhaust nozzles, <i>see</i> Nozzles.	
law-----	15881, 16068	Exhibitions : Century 21 Exposition, naming, expenses, etc.-----	12311
Evidence : admissibility of statements and confessions in U.S. courts, amend U.S. Code-----	334	hearings-----	15627
hearings-----	7418, 8668	law-----	15866
reports-----	7418	reports-----	14204, 14252, 14470, 14204
views-----	12399	international, desirability of holding in U.S., report-----	16086
documentary material pertinent to antitrust investigations, compel production-----	12399	works of art and other material, liberalize tariff laws, report-----	15825
report-----	1173	<i>see also</i> subjects.	
views-----	1913	Exhibits : displays and supplementary services incidental thereto, term contract-----	17423
Evolution of arthropod mechanisms-----		free entry for international trade fairs, make legislation permanent-----	7303
Evolution of petroleum industry in Rumania from 1st World War to today-----	3437	law-----	5852, 6030
Ewes, <i>see</i> Sheep.	3247	reports-----	2766, 11306
Ewing, George, lock and dam, <i>see</i> George Ewing lock and dam.	5401	Library of Congress-----	
Examinations : airplane flight instructor examination guide-----	3437	Exits (aircraft) : asymmetric penshape discharging into quiescent air, investigation-----	5245
Merchant Marine check officer-----	3247	ejector gross-force and pumping characteristics, effect of free-stream Mach number-----	3893
selective service college qualification test, bulletin of information-----	5401	ejector performance, effect of varying diameter ratio by using simulated iris flaps-----	13403
<i>see also</i> Ability—Civil service—also types or subjects of examinations.		internal performance of 2-dimensional wedge exhaust nozzles-----	3905
Examiners, <i>see</i> Farm credit examiners—Patent examiners.		nozzle, noise surveys of rocket engines for range of pressures-----	15076
Excavating machinery : earthmoving and excavating equipment summary for 1957, facts for industry-----	1469	plug type nozzles, effect of outer-shell design variables on internal performance-----	3892
earthworking, classification bulletin-----	2099	radial flow nozzles for air in chemical equilibrium, estimated performance-----	3918
Federal supply schedule-----	14651	short convergent-divergent nozzles, effects of geometric variables on internal performance-----	6706
lines of development in production of excavators and self-propelled cranes, USSR study-----	12912	side, ducted bodies, interaction effects produced by jet mixing in supersonic main stream-----	3939
Excavations at La Venta, Tabasco, 1955 : departmental edition-----	5611	simulation of hot jet engines in studies of jet effects on adjacent surfaces at free-stream Mach number 1.80-----	17731
document edition-----	5789	throat area modulation of convergent plug nozzles, comparison of 2 methods-----	6705
Excellence and national strength (address)-----	9278	thrust and drag characteristics of convergent-divergent nozzle with various exhaust jet temperatures-----	6701
Exceptional children, <i>see</i> Children.		turbojet nacelle, jet effects on flat surface downstream at free-stream Mach No. 1.39-----	6736
Excess property, <i>see</i> Surplus property.			
Exchanges, <i>see</i> Foreign exchange.			
Exchanges (International), <i>see</i> International exchanges.			
Excise taxes, <i>see</i> Internal revenue—also names of items taxed.			
Excitation curve, table of $p$ , $\gamma$ resonances-----	6153		
Excitons, <i>see</i> Electrons.			
Executive departments, <i>see</i> Government offices—Government officials and employees—Government reorganization plans—Government supplies.			
Executive nominations, <i>see</i> Nominations.			
Executive orders, <i>see</i> President of United States.			

# INDEX, 1959

	Entry		Entry
Expenditures, private, current business survey supp-----	4348	Explosives—Continued	
<i>see also</i> Finance—also names of departments, etc.—also subjects for which expenditures are made.		Federal supply schedule-----	1629
Expenditures of United States Government:		ignition of firedamp, influence of borehole freespace-----	13367
combined statement, 1958-----	1235	importation, transportation, etc., amend U.S. Code, hearings-----	12299
final statement-----	2973	industrial, consumption-----	937, 16713
monthly statement-----	2972, 11521	military, transportation on board vessels, rules and regulations-----	1503
U.S. output, current business survey supp-----	4348	permissible, incendiarity, effect of small percentages of sodium chloride, probability studies-----	9351
Experiment stations, <i>see</i> Agricultural experiment stations—also names of stations.		publications, price list-----	15163
Experiments and experimentation:		transportation, revise act, report-----	16126
instruments and experimental techniques (USSR periodical), abstracts-----	10812	Export control act of 1949, <i>see</i> Exports.	
radioisotopes, manual of experiments-----	8422	Export-Import Bank of Washington: appropriations, 1960—	
<i>see also</i> Factorial experiment designs.		hearings-----	12274, 16188
Explanatory bulletin, Wage and Hour and Public Contracts Divisions-----	5455	law-----	15747
Exploration and conservation of natural resources (USSR periodical), abstracts-----	7174, 10796	reports-----	12208, 15930-931, 16167
Explorations:		audit report, 1958-----	4446
drilling in Boulder batholith, Jefferson and Silver Bow Counties, Mont-----	11734	board of directors member, nomination of James S. Bush, hearing-----	14552
geologic, relationship between surveying and prospecting-----	5154	Government lending, statement of president-----	17390
geophysical methods, USSR-----	1903	organization and operations-----	7682
minerals, remove limitation on deduction of expenditures-----	15841	questions and answers-----	394
space, international cooperation, report-----	1531	report, 1959-----	16276-277
survey problems, oil and gas, 1959-65, USSR studies-----	6427	semi-annual report-----	6110
Explorers, BSA, air reservist (periodical)-----	2292	Exporters, foreign, exporting to United States, customs regulations-----	3401
Explosions:		Exports:	
biological effects of blast phenomena, hearings, excerpt-----	15422	commodities in U.S. foreign trade, 1958-----	14708
blast biology, primary and tertiary effects in open underground protective shelters, study-----	11753	control—	
granite, determination of detonation properties-----	17707	quarterly report-----	4411, 7257, 11863
propagation through cylindrical channels-----	6670	regulations, comprehensive schedule-----	6215
spherical propagation of strain pulses in rock-----	13366	regulations, summary-----	10145
spherical shells, elastic-plastic response to internal blast loading-----	13528	current export bulletin-----	2644, 11183
strain pulses produced in rock and strain energy transferred-----	17710	foreign trade reports-----	2359-61, 10907
structures, models of nuclear reactor outer containment shells, elastic response to internal blast loading-----	13529	inspection system of Japan-----	12710
structures undergoing elastic and permanent deformation, model laws for scaling of response to blast loading-----	7143	markets, problems involved in exporting surplus products-----	6114
suppression and transmission by cylindrical channels-----	13374	mutual defense assistance control act of 1951—	
Texas City claims, compensating, amend act—		amend, report-----	12490
law-----	15745	semiannual report-----	6948
reports-----	7382, 16148	privileges, denial and probation orders currently affecting-----	7767, 17436
<i>see also</i> Atomic bombs—Mine explosions—Nuclear explosions.		relation to U.S. production, 1958, comparisons with previous years-----	16425
Explosive presses, research tool in material behavior and forming-----	17004	statistical classification—	
Explosives:		schedule B-----	3181, 4351
air transportation, civil aeronautics manual-----	1615	schedule S-----	1472
		total trade of U.S.-----	471, 3545, 4892, 6231, 7802, 10159, 12720, 14709, 16426, 17451
		<i>see also</i> Commerce—also names of countries, etc.—also names or classes of articles exported.	
		Expositions, <i>see</i> Exhibitions.	
		Exposure chambers for research in animal inhalation-----	15171
		Express company, <i>see</i> Railway Express Agency, Inc.	
		Extension Service review (periodical)-----	2535, 11071
		Extension work:	
		activities and accomplishments, 1958-----	12640
		benchmarks (address)-----	3453
		employees, Federal penalty mailing privilege-----	14623
		evaluation keys-----	1320
		review of extension research, 1958-----	12639
		supervision, criteria and performance-----	16315
		<i>see also</i> subjects.	

	Entry		Entry
External environmental radiation measurements in United States-----	1383	Faculty (school)—Continued	
Extraction (chemistry):		institutions of higher education, personnel and instructional practices-----	1598
tellurium and indium from antimonous slag-----	1794	Faculty of Social Science, Communist training operations, hearings-----	15973
titanium from titanomagnetite ores of Kachkanarskiy deposit-----	7929	Fading, <i>see</i> Receivers (radio).	
yttrium and rare-earth elements from euxenite carbonate residue-----	17712	Fair employment practice, <i>see</i> Discrimination in employment.	
Eyes:		Fair labor standards act, <i>see</i> Labor standards.	
characteristics affecting photometric measurements-----	10538	Fair trade, <i>see</i> Prices.	
compensation to veterans for loss, report-----	8678	Fairfax County, Va., civil defense action guide-----	17294
protection for military and civilian industrial workers-----	142	Fairs:	
pupillary reactions, specific orientative and protective reflexes-----	14914	international, desirability of holding in U.S., report-----	16086
		international trade, articles for exhibit, free entry, make legislation permanent-----	
		law-----	7303
		reports-----	5852, 6030
		world's fair, New York, 1964, invite foreign countries to participate, report-----	15873
		Faith in the future (remarks)-----	2120
		Fallout, <i>see</i> Radioactivity.	
		Falls Church, Va., civil defense action guide-----	17294
		Falls of roof, <i>see</i> Mine accidents.	
		Families:	
		by type, 1950-59, population characteristics-----	13854
		characteristics, Mar. 1958-----	205
		Communist China, changes in system-----	14889
		family characteristics of workers-----	1466
		family economics review-----	2273, 10725
		farm-----	
		guidelines for rural leaders in low-income areas-----	13714
		Illinois, awareness and use of agricultural publications, survey-----	7869
		income improvement through production loans-----	13740
		information about credit-----	8312
		life insurance-----	11598
		social security effect-----	6872
		feeding problems reported by home demonstration club members-----	16316
		nonfarm, housing, consumer finances survey, 1959-----	17414
		number, 1960-80, projections-----	3182
		purchases of canned fish-----	16384
		purchases of frozen fruits and vegetables-----	7057
		receiving homemaker services, nationwide survey, 1958-----	4023
		research relating to children, studies in progress-----	8466
		size and income, effects on food consumption-----	13728
		social security protection-----	6875
		<i>see also</i> Income.	
		Family fallout shelters-----	11829
		Family farms, <i>see</i> Farms.	
		Fans, <i>see</i> Mechanical fans.	
		Far East, <i>see</i> East (Far East)	
		Fares, <i>see</i> Air carriers.	
		Farm animals, <i>see</i> Livestock.	
		Farm buildings:	
		building plans-----	
		cage laying houses, California type-----	7066
		chute for cattle, variable width-----	8329
		combination lamb brooder and ewe feeder-----	17203
		concrete hog wallow with surface drain-----	7065
		cottages-----	11646
		covered feeder for cattle-----	17202
		dairy stalls for artificial breeding-----	7064
		fence-line feeder for cattle-----	8326
F.A.A., <i>see</i> Federal Aviation Agency.			
F.B.I., <i>see</i> Federal Bureau of Investigation.			
F.C.A., <i>see</i> Farm Credit Administration.			
F.C.C., <i>see</i> Federal Communications Commission.			
F.C.D.A., <i>see</i> Federal Civil Defense Administration.			
F.C.S., <i>see</i> Farmer Cooperative Service.			
F.D.C. regs-----	434-436		
F.D.I.C., <i>see</i> Federal Deposit Insurance Corporation.			
F.H.A., <i>see</i> Federal Housing Administration.			
F. H. Hillel Co., relief-----	8560		
F.N.M.A., <i>see</i> Federal National Mortgage Association.			
F.P.C., <i>see</i> Federal Power Commission.			
F.P.C. R series-----	404, 16328		
F.P.C.S. series-----	4819, 14631, 17407-410		
F.T.C., <i>see</i> Federal Trade Commission.			
FAA, <i>see</i> Federal Aviation Agency.			
Fabricated materials, nonmetallic, Federal supply schedule-----	3487		
Fabrication, <i>see</i> names of materials fabricated.			
Fabrics, <i>see</i> Airplane fabrics—Textiles.			
Facilities and instrumentation of NRL hypervelocity laboratory-----	8150		
Facing up to future (remarks)-----	1163		
Factor analysis, <i>see</i> Factorial experiment designs.			
Factorial experiment designs, fractional, for factors at 3 levels-----	8094		
Factories:			
labor turnover, monthly release-----	11288		
nonfarm jobs, declining share, 1946-57-----	1970		
Factory workers, <i>see</i> Labor.			
Facts about international educational exchange program-----	4073, 15197		
Facts for industry (Census Bureau). 211-214, 1469-71, 2371-73, 4356-60, 5686-99, 7198-7215, 8453-57, 9712-24, 10902-904, 11809-811, 13859-864, 15470-481.			
Facts for industry (Tariff Commission)-----	2962, 11510		
Facts you should know upon relief from active duty or discharge-----	5614		
Faculty (school):			
colleges and universities, personnel and instructional practices-----	16250		
home economics teacher training and departments, institutional heads, list-----	6097		



# INDEX, 1959

	Entry		Entry
Farm buildings—Continued		Farm labor—Continued	
building plans—continued		migratory—	
forced air fruit cooler.....	17204	challenge and progress (ad-	
hay shed, for self feeding.....	106	dress).....	9279
homemade milking stall, side		changes in New York State.....	15283
entering type.....	8327	living standards, improvement,	
managers and feeding floors for		accomplishments, etc. (ad-	
dairy and beef cattle.....	11644	dress).....	9271
permanent breeding rack for cat-		need and changing technology	
tle.....	8328	(statement).....	7040
screen chamber for dairy barn		recruitment, authority of Secy.	
flushings.....	8330	of Labor to establish referral	
sheep self-feeder.....	15326	standards, opinion of Attorney	
3-bedroom farmhouse, etc.....	1317	General.....	16637
plan (series).....	106-107,	Mississippi, survey.....	3014
1317, 4188, 7064-66, 8326-30,		monthly report.....	2240, 10694
11642-646, 15326, 17203-205.		seasonal work areas—	
segmental rafters for gothic-type		eastern seaboard States.....	7674
roof.....	9102	far western States.....	6102
Farm cottage.....	11646	social security, employer's tax	
Farm credit, see Agricultural credit—		guide.....	533
Families.		underemployment in agriculture	
Farm Credit Administration:		(paper).....	15294
appropriations, 1960—		underemployment, technical ad-	
hearings.....	5909, 7444, 8880	vance and migration impact	
law.....	11967	(address).....	17188
reports.....	7431, 8830, 12116	workmen's compensation, status,	
circulars.....	395, 4790-91, 7683	etc.....	14969
corporations, audit report, 1958.....	4444	Farm loan associations, see National	
loans and discounts of farm credit		farm loan associations.	
banks and associations, 1958.....	4791	Farm loans, see Agricultural credit.	
operations, improve—		Farm machinery, see Farm imple-	
hearings.....	8717, 8877	ments and machinery.	
law.....	14023	Farm management, see Farms.	
reports.....	7374, 8847	Farm mechanics, see Mechanization.	
report, 1958.....		Farm mortgages, see Mortgages.	
departmental edition.....	10089	Farm people and social security.....	1135, 9440
document edition.....	9799		
Farm credit examiners, examination		Farm ponds, make safe, prevent	
announcement.....	5749	drownings.....	8331
Farm employees, see Farm labor.		Farm prices, see Prices.	
Farm equipment, see Farm imple-		Farm products, see Agricultural prod-	
ments and machinery.		ucts—also names of products.	
Farm families, see Families.		Farm relief, see Agriculture.	
Farm houses, see Farmhouses.		Farm supply cooperatives, see Farm-	
Farm implements and machinery:		ers' cooperative organizations.	
facts for industry.....	2372, 10903, 15474	Farm surpluses, see Agricultural	
farm machines and equipment, pre-		products.	
liminary report.....	5515	Farm-to-retail price spreads for ched-	
farmers' expenditures.....	5556	dar cheese in South.....	7058
helicopter equipment, USSR study.....	7925	Farm work, see Farm labor.	
industry, outlook for 1959 and re-		Farmer Cooperative Service:	
view of 1958.....	1423	appropriations, 1960, Agriculture	
production for future prosperity		Dept., hearings.....	5909
(address).....	13903	FCS bulletins.....	396, 12624
relation to farm production and		FCS circular.....	14608
surpluses.....	77	FCS educational circular.....	16278
Soviet equipment and repair sta-		general reports.....	3433-34,
tions, financial and operational		4792, 6112, 7684-85, 8976-77,	
plans.....	3692	10090-93, 12625-626, 17392.	
Soviet, selected translations.....	12893	information series.....	1611, 12627, 14609
world survey, Asia.....	15457	publications, list.....	1611, 14609
see also Lister planter.		service reports.....	3436,
Farm income, see Income.		6116, 7687, 8981	
Farm insurance, see Agricultural in-			
surance.		Farmers:	
Farm labor:		American, agriculture had good	
child workers in agriculture.....	7974	year in 1958 (address).....	5522
crew leaders, social security infor-		dynamic and aggressive progress,	
mation.....	9441	development (notes used in	
fact book.....	17658	address).....	86
hired farm working force, 1957.....	8307	election of local, county, and State	
progress report.....	24	committeemen, amend law, re-	
housing, adequate living accomoda-		port.....	14437
tions, good business practice.....	7675	equitable treatment under soil bank	
local and national interest (ad-		act—	
dress).....	16644	law.....	15634
market developments.....	2502, 11033	reports.....	15818, 16065
employment and wage suppli-		expenditures for motor vehicles	
ment.....	2503, 11034	and machinery.....	5556
Mexican agricultural workers,		fair labor standards act, exemp-	
agreement with Mexico.....	17867	tions, hearings.....	12564
Mexican farm labor program, re-		family farm poultry and egg pro-	
port of operations.....	16263	ducers, relief, hearing.....	14326

# JANUARY-DECEMBER

	Entry		Entry
<b>Farmers—Continued</b>		<b>Farmers' cooperative organizations—</b>	
income, cash receipts from major		<b>Continued</b>	
farm commodities by States,		supply co-ops—	
1924-57	4194	inventory management	7687
insurance protection, facts	9605	retail, credit control	7684
production credit system, 1933-58	395	using your co-op cotton gin	14608
production expenses, 1949-57	19	see also names of organizations.	
publications, list	6318	<b>Farmers Home Administration:</b>	
social security—		appropriations, 1960, Agriculture	
benefits	1135, 9440	Dept., hearings	5909
information	9441	farm-mortgage lending experience	46,
retirement test	6873	3035, 8291,	11601
stock peanuts stored in bulk,		loan program and its borrowers	17187
volume-weight relationships	7008	production loans, experiences of	
tax guide	535, 17504	families receiving	13740
what they should know about biological warfare	15508	records, preliminary inventory	16934
see also Farmers' cooperative organizations.		Farmhouses, 3-bedroom, etc., farm building plans	107, 1317
<b>Farmers' bulletins</b>	87-92,	<b>Farming, see Agriculture.</b>	
1299-1305, 3052-58, 4169-70,		<b>Farms:</b>	
5530-33, 7048-50, 8309-12,		beef herd production, general in-	
9601-5, 11624-625, 13726, 15307,		formation	1303
17191-193.		census of agriculture, enumerator,	
<b>Farmers' cooperative organizations:</b>		1959, information for enumer-	
acquisition of existing processing,		ator applicants	8462
marketing, and handling facilities—		Columbia Basin project, water	
hearings	17349	limitations, etc., amend act—	
report	12446	law	11953
adjustments in operations essential to agricultural producers and changing markets	6115	reports	4611, 8820
basic policy formation through balance sheet analysis	398	commodity acreage allotments—	
business volume, etc., statistics,		and marketing quotas, sale and transfer within county, hearing	5905
1957	8980	lease within county, hearing	6042
capital and credit, key to successful operation (address)	7683	sale or lease within county, hearings	7436, 12272
China, formation	600	cost and returns, commercial family operated, by type and location	13725
co-op role in Federal milk orders	16280	cost situation	1277, 8293
court cases, summary, legal series	2510, 11041	cotton acreage allotments—	
credit agencies use to meet patron's needs	3433	exchange within county for rice allotments, hearings	5905, 6042
dairy cooperatives, use of multi-quart containers	3434	lease within county, hearing	6042
dairy manufacturing cooperatives grade A milk marketing	10090	sale or lease within county, hearing	7436
eggs, cost of marketing and labor output in northeast	8976	electricity use, 1958	9580
employee incentive plans	10092	family, benefit by establishing Commission on Country Life, hearings	12269
Federal research and education work, 1913-53	3436	farm program—	
fertilizer manufacture in South	12624	administration proposals, testimony of Secretary Benson, hearing	7434
fruit and vegetable bargaining cooperatives, interest grows in	7686	message from the President, hearings	7599
integrated petroleum operations, 1950 and 1957	7685	Federal income taxes—	
integration contracts and livestock marketing (address)	399	farm course, 1958	542
integration of production, marketing, etc., operations, review of progress	16279	student handbook	537
Japan	10094	general farm legislation, hearings	17327
major regional cooperatives handling farm supplies, 1956 and 1957, handbook	4792	Government's role as hired hand (address)	3078
management training programs	10093	horses and mules, use	7034
milk cooperatives, group bargaining, exempt from antitrust laws, report	7546	investments of life insurance companies	48
mobile feed milling in Michigan and Wisconsin	12625	irrigation methods in West	17064
news for farmer cooperatives	2509, 11040	levels of living and future, solid progress with sound programs (notes used in address)	86
reprints	397-398, 3435, 6114-15, 7686, 8978-80, 10094, 12628, 14610, 16279-280	lightning protection	9604
petroleum operations integration	14610	management, publications, price list	17033
place in agriculture (address)	4166	milk production, 1958	4146
public relations, planned	12627	number by States, 1958	7027
responsibilities in relation to Federal milk orders (talk)	4147	population estimates, 1958	3012
statistics 1956-57	10091	problems—	
		solution and Government programs (talk)	7045
		solved by realistic farm program (address)	11612
		solved by research and education (address)	11614
		production and efficiency changes, summary report	17210

# INDEX, 1959

	Entry		Entry
<b>Farms—Continued</b>		<b>FBI, see Federal Bureau of Investigation.</b>	
progress, great achievements in		<b>FCA, see Farm Credit Administration.</b>	
agriculture (address)-----	7051	<b>FCC, see Federal Communications Commission.</b>	
real estate—		<b>FCDA, see Federal Civil Defense Administration.</b>	
market, current developments	1278, 8292	<b>FCS, see Farmer Cooperative Service.</b>	
taxes, 1958-----	15284	<b>FDA, see Food and Drug Administration.</b>	
replenishing underground water	15312	<b>FDIC, see Federal Deposit Insurance Corporation.</b>	
supplies-----	5533	<b>Fecundity, studies based on 1960 census data-----</b>	10523
rope uses, etc-----	9477	<b>Federal, see headings beginning Federal—Government—National—Public.</b>	
sale of units, Columbia Basin project, announcement-----	3671	<b>Federal Advisory Council on Juvenile Delinquency, establish hearings-----</b>	5923, 8729, 10051
state, first created in Vietnam since agrarian reform-----	13706	<b>Federal Advisory Council on the Arts, establish, hearing-----</b>	12285
taxation, finance review-----	3032	<b>Federal agencies, see Government offices.</b>	
supplement-----	7017	<b>Federal aid, see Grants-in-aid—also subjects.</b>	
telephone—		<b>Federal airways, see Airways.</b>	
costs continue upward-----	9581	<b>Federal Aviation Agency:</b>	
three-fifths of nation have service-----	84	<b>Aeronautical Center, program, facilities, etc-----</b>	12629
tenure, 1954, statistical summary-----	84	<b>air traffic activity, summary 1958-----</b>	8984
see also Electricity—Forests and forestry—also headings beginning Agricultural—Farm.		<b>air traffic control specialists-----</b>	13883
<b>Faroe Islands, air navigation services joint financing agreement-----</b>	9512	<b>appropriations, 1960, hearings-----</b>	7454
<b>FAS, see Foreign Agricultural Service.</b>		<b>civil aeronautics manuals-----</b>	1615-
<b>FAS-M series-----</b>	444-446,	<b>16, 3439-40, 4794-96, 6117-18,</b>	
3516-17, 4868-69, 6205-10,		<b>7689-91, 12630-31, 14611,</b>	
7763-65, 9059-62, 10142, 12696,		<b>16281-295, 17393.</b>	
16394-395, 17432-433.	9063	<b>civil air regulations-----</b>	4797
<b>list-----</b>		<b>amendments-----</b>	1480, 3441-48,
<b>Fast neutrons, see Neutrons.</b>		<b>4798, 7692-95, 8982, 12632-634,</b>	
<b>Fast reactors, see Reactors (atomic).</b>		<b>14612, 16296-305, 17394-398</b>	
<b>Fast scan, 36-position multiple-channel electronic switch-----</b>	8144	<b>contractions used in air traffic control, etc, manual-----</b>	17238
<b>Fastenings, resin dipped metal fasteners, holding strength in woven roving laminate, study-----</b>	13576	<b>electro-mechanical technician, examination announcement-----</b>	11835
<b>Fat, see Fats.</b>		<b>electronic technician, examination announcements-----</b>	8477, 15519
<b>Fatalities, see Death.</b>		<b>establishment, law, comparative print-----</b>	7627
<b>Fatigue:</b>		<b>publications, Feb. 1959, list-----</b>	7696
aircrew problems, plan to investigate psychophysiologic effects during extended endurance flight-----	8372	<b>regulations of administrator-----</b>	1618,
visual, and illumination conditions, determination by measuring visibility, USSR studies-----	6598	<b>3450, 10097, 17400</b>	
<b>Fatigue of materials, see Strains and stresses.</b>		<b>releases-----</b>	2519, 11052
<b>Fats:</b>		<b>research and development-----</b>	7697
animal—		<b>technical development reports-----</b>	245,
and vegetable, facts for industry, inedible tallow and grease industry changes in markets, practices, and costs-----	11635	<b>1619-20, 4802-10, 6122</b>	
facts for industry-----	2371, 10902	<b>technical manual-----</b>	1613
fats and oils situation-----	2203, 10660	<b>technical standard order TSO (series)-----</b>	10098-99, 16312, 17401
food, fatty acids content-----	4171, 7052	<b>index-----</b>	1621
foreign agriculture circulars-----	2643, 11182	<b>use of certified mail for service of process—</b>	
industry, capacity and processing trends-----	15322	<b>law-----</b>	15611
outlook for 1958-59 (statement)-----	1267	<b>reports-----</b>	12207, 14486
shortenings, sales, effects of coupons and special offers-----	13734	<b>Federal Board for Payments to Governmental establishments:</b>	
West Africa's fats and oils industry-----	16394	<b>establish—</b>	
<b>Fatty acids:</b>		<b>hearing-----</b>	7620
collectors for iron oxides-----	16722	<b>minority views-----</b>	16113
content of food facts-----	4171, 7052	<b>report-----</b>	16113
in animal and plant products-----	9591	<b>Federal buildings, see Public buildings.</b>	
processing tax, temporary suspension—		<b>Federal Bureau of Investigation, discredit, efforts by communist conspiracy, articles documented by Edward J. Mowery from Newark, N.J., Star-Ledger-----</b>	7497
law-----	8522	<b>Federal Civil Defense Administration:</b>	
reports-----	4575, 7575	<b>annual report, 1958-----</b>	5720
<b>Fauna:</b>		<b>annual statistical report, 1958-----</b>	1481
Aleutian Islands and Alaska Peninsula-----	17430	<b>Federal civil service, see Civil Service.</b>	
North American-----	17430		
see also Marine fauna.			
<b>Fayda, Aram, and wife, relief-----</b>	7514		
<b>FBA, see Dihydroperfluorobutyl acrylate.</b>			

# JANUARY-DECEMBER

	Entry		Entry
Federal Coal Mine Safety Board of Review:		Federal deposit insurance act, see Banks and banking.	
appropriations, 1960—		Federal Deposit Insurance Corporation:	
hearings.....	5911, 8883	annual report, 1958.....	8986
law.....	11961	assessments on uninsured fiduciary bank deposits, eliminate, report.....	12428
reports.....	5876, 8713, 8844	audit report, 1958.....	5806
nomination, Edwin R. Price, hearing.....	8906	insured banking offices, list.....	4812, 11069
Federal Communications Commission:		press releases.....	2534, 11070
act of 1934, amend, hearings.....	12553	report series.....	7702, 16314
actions in docket cases, reports.....	2524, 11059	report to insured banks.....	4811, 14620
actions on motions, reports.....	2525, 11060	Federal Disability Insurance Trust Fund, see Board of Trustees of Federal Old-Age and Survivors Insurance and Disability Insurance Trust Fund.	
appropriations, 1960, hearings.....	7454	Federal employees, see Government officials and employees.	
certain reports and application forms, eliminate oath requirements, report.....	14472	Federal Employees Health Benefit Advisory Council:	
decisions and reports—		create—	
Jan. 11-July 5, 1957.....	3452	hearings.....	8908, 14348
weekly.....	2520, 11055	report.....	12410
establish TV network rules, hearings.....	6007	views.....	12410
FCC review staff, redefine duties, etc., amend communications act, report.....	14475	Federal employment, see Employment.	
functions and activities investigation—		Federal Extension Service:	
report.....	1533	appropriations, 1960, Agriculture Dept., hearings.....	5909
views.....	1533	circulars.....	12639-640, 14621-622, 16315-317
hearings, restrict participants, report.....	14471	Federal Facilities Corporation, audit report, 1958.....	3276
honorary for members making speeches, etc., repeal provision, report.....	14476	Federal Farm Mortgage Corporation, operations and achievements.....	4790
instructions in docket cases.....	2528, 11063	Federal Fire Council, minutes of meeting.....	4918
jurisdiction over community antenna television systems, report.....	16144	Federal funds market, study.....	10107
members, serve until appointment of successor, report.....	12412	Federal gas tax refund for nonhighway and transit users.....	1726
memorandum opinions, etc.....	2523, 11058	Federal government, see Government.	
miscellaneous nominations, hearings.....	333	Federal Home Loan Bank Board:	
nationwide TV service development policy, advisory committee report.....	6066	appropriations, 1960, hearings.....	5914
nonbroadcast and general actions reports.....	2531, 11066	audit report.....	5808
patent problems in communicating field, investigation, hearing.....	9915	digest.....	2536, 11072
regulatory authority, expand, report.....	16048	member, nomination of William J. Hallahan, hearing.....	7609
releases.....	2529, 11065	preparedness guidelines for emergency savings and loan operations in cooperation with OCDM.....	12642
report, 1958.....	3451	releases.....	2542, 11078
rule making, petitions filed.....	2532, 11067	report, 1958.....	8987
rules and regulations.....	7701, 12636-637, 14616-618, 17404-405	Federal Home Loan Bank System:	
violations, authority to impose fines, report.....	14473	number of member savings and loan association offices by location of facility, 1957, summary.....	4813
Federal Contributions to State and Local Governments Commission:		operations, 1958 report.....	5987
establish—		Federal home loan banks:	
hearings.....	7620	act, amend—	
minority views.....	16113	law.....	15714
Federal courts, see Courts of United States.		reports.....	15798, 16080
Federal credit unions:		audit report, 1957.....	3266
act, amend—		audit report, 1958.....	5807
hearing.....	14551	directors, increase number—	
law.....	15718	hearings.....	14553
reports.....	12194, 12228, 16084	law.....	15714
views.....	12194	reports.....	15798, 16080
laws governing, revise, hearings.....	7458	Federal Housing Administration:	
report of operations, 1958.....	12638	audit report, 1954-57.....	9800
Federal Crop Insurance Corporation:		commissioner, nomination of Julian H. Zimmerman, hearing.....	3384
administrative flexibility in operating crop insurance program, amend act—		FHA story in summary, 1934-59.....	16320
law.....	13995	improve today with FHA.....	3460, 14626
reports.....	5850, 12444	mortgage insurance authorization increase, message from the President.....	8768, 15771
audit report, 1958.....	4447	news release.....	11080
		report, 1957.....	1622
		research and statistics release.....	11081
		special features for use at any time.....	2544, 11082

# INDEX, 1959

	Entry		Entry
Federal Housing Administration—Con-		Federal National Mortgage Associa-	
technical circular.....	16322	tion—Continued	
technical studies program, how		nonrefundable capital contribu-	
FHA helps improve home-		tions, income tax treatment,	
building techniques.....	402, 12645	report.....	15860
Federal intermediate credit banks:		Federal Old-Age and Survivors Insur-	
employees, clarify status—		ance Trust Fund, <i>see</i> Board of	
hearings.....	8717, 8877	Trustees of Federal Old-Age	
report.....	8848	and Survivors Insurance and	
farm credit act of 1959, report....	7374	Disability Insurance Trust	
Federal item identification guides for		Fund.	
supply cataloging:		Federal personnel manual, <i>see</i> Civil	
cataloging handbooks.....	348-350, 3405	service.	
supplements, monthly.....	2484, 11016	Federal planning, <i>see</i> Economic	
supplements, weekly.....	2485, 11017	policy.	
Federal land bank associations:		Federal Power Commission:	
naming—		appropriations, 1960, hearings.....	5914
hearings.....	8717, 8877	approval requirement for with-	
law.....	14023	drawal of facilities, report.....	16051
reports.....	7374, 8847	daily news digest.....	2554, 11092
Federal land banks:		forms and publication lists.....	3466,
appraisals, transfer responsibility		6131, 16327	
to, etc.—		FPC R series.....	404, 16328
hearings.....	8717, 8877	FPC S series.....	4819, 14631, 17407
law.....	14023	functions and activities investiga-	
reports.....	7374, 8847	tion—	
employees, clarify status, report....	8848	report.....	1533
farm-mortgage lending experience..	46,	views.....	1533
3035, 8291, 11601		laws compilation.....	15757
farm mortgage loans.....	4154	members, serve until appointment	
loans, report, 1958.....	1610	of successor, report.....	12412
Federal lands, <i>see</i> Public lands.		miscellaneous nominations, hear-	
Federal legislation, rulings, and regu-		ings.....	333
lations affecting State agricul-		practice and procedure, rules, May	
tural stations.....	3072	1, 1958, insert.....	6134
Federal Maritime Board:		publications, price list.....	4018
cases.....	2545, 11083	report, 1958.....	
current regulations, index.....	6130	departmental edition.....	3465
functions and duties (remarks).....	3462	document edition.....	3280
impact upon economy and activi-		reports, opinions, decisions, and	
ties (remarks).....	8991	orders—	
miscellaneous nominations, hear-		bound volumes.....	14629-630, 16326
ings.....	333	monthly.....	2550, 11088
operations and activities, status,		Federal Prison Industries, Inc.:	
hearing.....	8744	annual report, 1958.....	6900
policies and programs (address)....	17406	audit report, 1958.....	4445
procedures for determining foreign-		Federal probation (periodical)....	2186, 10643
flag affiliations of subsidized		Federal procurement regulations,	
operators—		FPR circular.....	7842
hearings.....	15951	Federal property, <i>see</i> Public property.	
report.....	14210	Federal property and administrative	
program and policies in regulating		services act, <i>see</i> Public prop-	
water transportation to Alaska		erty.	
(remarks).....	3463	Federal Radiation Council:	
releases, NR series.....	2546, 11084	establishment—	
report, 1958—		law.....	15737
departmental edition.....	1624	reports.....	15880, 16114
document edition.....	1526	Federal register.....	2555, 11093
ship construction and sales, hear-		codification guide.....	11093
ing.....	316	index monthly.....	2556, 11093
SP series.....	403,	Federal regulations, <i>see</i> Code of Fed-	
2547, 3462-63, 4817-18, 6126-29,		eral regulation— <i>also</i> subjects.	
8988-93, 10101, 12647, 14627-		Federal Republic of Germany, <i>see</i>	
628, 16324, 17506.		Germany.	
Federal Mediation and Conciliation		Federal reservations, <i>see</i> Public lands.	
Service:		Federal reserve agents fund, transac-	
appropriations, 1960—		tions.....	2581, 11118
hearings.....	5913, 8884	Federal reserve banks:	
law.....	14013	act of 1913 with amendments,	
reports.....	7392, 9909, 12229	text.....	283, 12282
report, 1958.....	3464	condition, weekly statement.....	2594, 11130
Federal National Mortgage Associa-		increase or decrease of capital	
tion:		stock, etc., regulation.....	14641
audit reports.....	291, 17322	interdistrict settlement fund,	
mortgage loans held, exchange for		transactions.....	2581, 11118
Treasury bonds—		nonmember banks with clearing ac-	
hearing.....	8886	counts, list.....	3480
report.....	12452	purchase of warrants, regulation....	14638
views.....	12452	<i>see also</i> other headings beginning	
mortgages, exchange for U.S. 2%		Federal reserve.	
percent treasury bonds.....	16325	Federal reserve bulletins.....	2557, 11094
news.....	11085	Federal reserve chart book on finan-	
		cial and business statistics.....	2558,
		historical supp.....	11095
			16344



# JANUARY-DECEMBER

	Entry
Federal reserve member banks:	
assets and liabilities, monthly report.....	2566, 11102
business loan surveys, 1955 and 1957.....	6164
cash reserves required against demand deposits, amend act—	
hearings.....	6050, 7459
law.....	12001
reports.....	7547, 8667, 8700, 12149
views.....	7547, 8667
changes in State bank membership, weekly announcement.....	2564, 11101
condition, weekly statement—	
banks in central reserve cities.....	2570, 11107
banks in leading cities.....	2571, 11108
deposits, reserves, and borrowings, semimonthly report.....	2577, 11114
earnings.....	2582, 11119
loans.....	2583, 11120
member bank call report.....	2560, 11097
reserves and credit, weekly averages.....	2594, 11130
security pledged on business loans.....	17413
State member banks, 1958, list.....	3480
State member banks, list, supplements.....	2562, 11099
term lending to business, 1955-57.....	7728
Federal reserve par list.....	2559, 11096, 16343
Federal reserve system:	
act, amend, report.....	12427
Federal funds market, study.....	10107
monetary policy decision-making (address).....	9008
State banking institutions, membership, regulation.....	3475, 14640
Federal Reserve System Board of Governors:	
Government securities market study.....	14646
summary.....	14637
nomination of George H. King, jr., hearing.....	6051
regulation series.....	406, 3474-79,
9009-10, 14638-644, 16348	
report, 1958.....	12656
research library, additions.....	2561, 11098
statement for the press.....	2592, 11129
weekly review of periodicals.....	2596, 11133
Federal retirement systems, see Civil service pensions.	
Federal savings and loan associations, rules and regulations.....	7703, 3458-59
Federal Savings and Loan Insurance Corporation:	
audit report, 1958.....	3275
operations, 1958 report.....	8987
Federal Savings and Loan System, operations, 1958 report.....	8987
Federal service, see Civil service.	
Federal ship mortgage insurance:	
deposit of funds in escrow to facilitate ship financing—	
law.....	12013
reports.....	12145, 12398
include floating drydocks among vessels eligible—	
hearing.....	12552
reports.....	10004, 14291
views.....	10004
issuance on fishing vessels, clarify functions of Interior Dept., report.....	16098
private financing of construction—	
hearing.....	7629
law.....	12009
reports.....	7555, 12140
Federal specifications, see Government supplies.	
Federal standards.....	6168-69, 9013, 10112, 12662-663, 14648-649, 16351-364, 17416.

	Entry
Federal-State Action Joint Committee, progress report, Dec. 1958.....	4012
Federal-State private cooperative snow surveys and water supply forecasts.....	2940-44
Federal-State relationships in atomic energy field, hearings.....	15751
Federal supply catalog.....	7657, 17368
Federal supply classification handbook, numeric index.....	12577
Federal supply schedule.....	408-419, 1629-33, 3482-87, 4829-42, 6170-76, 7732-34, 9014-29, 10113-118, 14650-658, 12664-676, 16365-368, 17418-420.
check lists.....	2597, 11134
contractors, gasoline deliveries, list.....	16349
Federal tax policy, see Taxation.	
Federal test method standards.....	6177, 10119
Federal textbook on citizenship.....	6315
Federal Trade Commission:	
act, amend—	
hearings.....	332, 7470, 15948
report.....	9837
views.....	9837
appropriations, 1960, hearings—	
cease-and-desist orders, enforcement, finalize under Clayton act—	
hearings.....	9917
law.....	11994
reports.....	4728, 9880A
decisions (bound volume).....	7735
decisions (separates).....	2600, 11137
functions and activities investigation—	
report.....	1533
views.....	1533
guides against deceptive pricing.....	9492
jurisdiction to issue preliminary injunctions under sec. 15 of Clayton act, hearings.....	7640
miscellaneous nominations, hearings.....	333
news release.....	2602, 11138
news summary.....	2601, 11139
press releases.....	2602
publications, list.....	3489
report, 1958—	
departmental edition.....	4844
document edition.....	4439
statutes and decisions, 1958 stipulations.....	17424
stipulations.....	2603, 11141
Federal wage-hour law, see Labor standards.	
Federation of Malaya, see Malaya.	
Federation of Rhodesia and Nyasaland:	
establishing business.....	3530
foreign trade, 1956-57.....	4894
Feed, see Food for livestock—also other headings beginning Food—also names of feeding stuffs.	
Feed additives, minerals, and vitamins for dairy cows.....	7036
Feed grains, see Grain.	
Feed mills:	
labor efficiency in formula feed production.....	8280
mobile operations by cooperatives in Michigan and Wisconsin.....	12625
Feed the birds.....	8123
Feeders:	
covered, for cattle farm building plan.....	17202
cw, and lamb brooder, combination, farm building plan.....	17203
fence-line, for cattle, farm building plan.....	8326
sheep, farm building plan.....	15326

# INDEX, 1959

	Entry		Entry
Feeding the family, some problems reported in national study of home demonstration club members	16316	Ferroalloys—Continued	
Fees:		metallurgy development in Georgian SSR	7919
attorneys and bankruptcy proceedings, court to examine, report	15835	minerals yearbook chapter	16692
consular officers for services to American vessels and seamen, authorize, hearings	12534	production, etc., 1958	13338
marshals, amend U.S. Code, report	16071	Ferromagnetic metals, waveguide dummy loads utilizing, high-loss materials as dissipative elements	13511
renewal and other patent fees, laws in foreign countries, study	3396	Ferrosilicon, report, quarterly	11348
tests performed by NBS, schedules, 1959	8099	Ferrous metals:	
transcripts of birth and death certificates in D.C., amend laws—law	14033	development of ferrous metallurgy in Hungarian People's Republic	12909
reports	12258, 12414	foundry industry, outlook for 1959 and review of 1958	1452
trustees in bankruptcy closing fees, etc., increase, report	16072	iron ore base of USSR ferrous metallurgy industry and path of its growth, 1959-65	6414
Feet, see Foot.		metallurgy, iron-ore base of industry of USSR, excerpts	1747
Feldspar:		scrap, consumption, 1958	9349
minerals yearbook chapter	14994	Fertility, see Fecundity.	
production, etc., 1958	3861, 13348	Fertilizers:	
Fellowships:		bulk blending, innovation in marketing	4105
information	6100	commercial, consumption in U.S.—preliminary report	15280
leadership preparation in education of mentally retarded, graduate program	14594	industry, major trends and scope of TVA's activities	5519
National Cancer Institute research fellows, directory	10509	manufacture by cooperatives in South	4107
national defense education act of 1958—graduate programs authorized—guide	7670, 8947, 3420, 5924	manufacture, distribution, and use, TVA's nationwide educational program, statistical summary	12624
hearings		mineral, plans to increase use in USSR agriculture	4106
National Institutes of Health awards	8106, 16947	plant nutrient consumption by States and geographic areas, statistics	14865
National Science Foundation—science faculty awards, information	1116	production and utilization in China	4109
senior postdoctoral awards, information	1117	publications, price list, surveys—situation, 1958-59	17520
to award for graduate study in oceanography, hearing	17342	solutions, hose pump for applying, starter, lister planter attachment for side-band placement	9463
Felt, orlon, use as surface overlay in glass reinforced polyester laminates, evaluation report	8214	superphosphate, etc., facts for industry, summary, 1958	7273
Females, see Women.		tagged atoms in study of plant nutrition and use of fertilizers, conference transactions	1304
Femoral nerve, neuritis, radioactive genesis, USSR study	6577	TVA development, 25 years of progress	11597
Fences, party line at Kings Mills Ordnance Plant sharing construction costs, report	9843	uptake, radiolabels uses, list of references	7212
Fenderich, Charles, catalog of work	16675	use in cotton production on Lakeland sand, lysimeter experimental results	171
Fenuta, Maria G., relief	4537, 7288, 7509	Fescue, red, seed, trade agreement escape-clause investigation	6973
Fenwick Island, Del., to Little River Inlet, S.C., light list	5762	Festivals:	9665, 15419
Fermentation:		Pacific, San Francisco, 1959, President to invite foreign countries to participate—law	7070
chemistry, type reactions	7038	reports	17878
microbiology, new tasks in industry, USSR study	13246	Fetal death, see Still-birth.	
Ferrante, Gluseppa, relief	12084, 15570, 16026	Fetus:	
Ferric chloride:		intrauterinely irradiated, prophylaxis of radiation sickness, USSR studies	10353
production, chlorinating titaniferous slag	2013	maternal disorders related to fetal stress, etc., selected references	17052
trap for removing from titanium tetrachloride	943	penetrating radiation, effect on development under experimental condition, USSR study	14918
Ferrites:		Feudalism, on feudal-bey survivals in Kazakhstan	694
copper low-temperature heat capacities	16726	Fever, see names of fevers.	
microwave properties, effects of nuclear irradiation	13516	FHA, see Federal Housing Administration.	
properties, and applications to microwave systems	13532	Fiber boxes, see Boxes.	
Ferroalloys:			
industry, outlook for 1959 and review of 1958	1451		

# JANUARY-DECEMBER

	Entry		Entry
<b>Fibers:</b>		<b>Fighter planes—Continued</b>	
chemical, report on 1958 all-China conference.....	6536	swept-wing—continued	
household furnishings made from, homemakers appraisal.....	101	static lateral stability and control characteristics, flight-determined.....	15056
liberation, classification bulletin.....	17011	time-vector determined lateral derivatives.....	15055
man-made broad woven goods, facts for industry.....	15473	with 2 drag-rise-reducing fuselage, drag investigation.....	16818
synthetic—		with vertical tails, lateral stability and control characteristics.....	16828
industry, wage structure.....	14971	tailless, effects of external fuel tanks and rocket packets on drag characteristics.....	17722
superfine thermoplastic, improved device for formation.....	8147	weapons, Air Force manual.....	3108
use in children's clothes, mothers preferences.....	3019	<b>Figs:</b>	
vegetable, foreign agriculture circulars.....	2643, 11182	dried, Tariff Commission report.....	15223
wool and related, facts for industry.....	2372, 10903	production, use, value, 1957-58.....	9582
see also names of certain plants, textiles, etc.		<b>Files and filing (documents):</b>	
<b>Fibrin:</b>		maintenance and disposition, streamlined approach, Interagency Records Administration Conference.....	13455
films—		managing current files, records management handbook.....	5308
use in radiation injuries of external integument, USSR studies.....	10354	<b>Filing cabinets:</b>	
use in treatment of localized frostbites, USSR study.....	17643	steel—	
utilization problem after irradiation of skin surface, USSR.....	1867	card size, desk use, Federal standard.....	16358
<b>Fiduciaries, see Banks and banking.</b>		legal and letter size, vertical, Federal standard.....	16359
<b>Field artillery, see Artillery.</b>		map and plan, Federal standard.....	16360
<b>Field crops, see Crops.</b>		<b>Fills:</b>	
<b>Field manuals, see Army Department.</b>		beach material and borrow channel area suitability Harrison County, Miss.....	8967
<b>Field peas, frozen, U.S. standards for grades.....</b>	13705	Virginia Beach, Va., behavior study.....	17383
<b>Field radiological defense technical operations.....</b>	17271	see also Sanitary fills.	
<b>Field service compensation act of 1955, see Postal service.</b>		<b>Film libraries, see Motion pictures.</b>	
<b>Fifteen Mile Creek, hydrologic data of basin, 1947-54.....</b>	6298	<b>Film strips, see Filmstrips.</b>	
<b>Fighter planes:</b>		<b>Films (photography), see Motion pictures.</b>	
control, lateral, pilot opinion study of requirements.....	5275	<b>Filmslides, timber resources review, commentary guide.....</b>	481
delta-wing—		<b>Filmstrips:</b>	
minimum drag reductions obtained from tests of rocket-boosted models and equivalent bodies between Mach numbers of 0.80 and 1.64.....	16834	Agriculture Department, list.....	11620
modified, transonic trim change, effect of lower-surface spoilers.....	16868	copyrighted July-Dec. 1958.....	7651
tailless, low-speed handling qualities.....	16865	Library of Congress catalog.....	2770, 10412, 11310
handling characteristics when controlled through rate type of automatic control system.....	5254	medicine and allied sciences.....	13467
jet, maneuvers in relations to handling qualities and calculated dynamic characteristics.....	16817	nursing.....	3424
lateral-oscillatory characteristics, flight study of effects on tracking performance.....	16746	United States educational, etc., selected for use abroad, catalog.....	17149
rigid force control stick used with electronic control systems, flight investigation.....	16913	<b>Filters and filtration:</b>	
side-located control stick used with electronic control systems.....	6749	air-filter samples collected in 1957, radiochemical analysis.....	5346
supersonic airplane with external-flow jet augmented flap in low-speed flight, wind-tunnel investigation of aerodynamic characteristics.....	16890	alignin paper, use for purifying ventilating air from viruses, USSR.....	1908
swept-wing—		irrigation wells.....	5542
45°, static longitudinal and lateral aerodynamic characteristics, effects of external stores.....	16839	low-pass, effects on performance of manual compensatory tracking task.....	1127
45°, static longitudinal, stability and control.....	16827	methodology of preparing filters from gelatin foam for bacteriological investigation of air, USSR studies.....	5038
jet, factors affecting choice of minimum approach speed for carrier-type landings.....	16860	rarefied air, determination of specific surface of powder-form bodies on basis of resistance to filtration, USSR studies.....	1907
		see also Radio frequency filters.	
		<b>Finance:</b>	
		agriculture balance sheets, 1959.....	12657
		analysts, career opportunities, Housing and Home Finance Agency.....	15305
		city finance.....	1348
		city government, 1958—	
		compendium.....	4934
		summary.....	11802, 15465
			15465
			11802

# INDEX, 1959

	Entry		Entry
Finance—Continued		Finance—Continued	
code of Federal regulations.....	9001	special districts, 1957 census of	
college and university buildings,		governments.....	7192
1951-55.....	3418	announcement and order form.....	7189
consumer survey, 1959.....	14645	State and local government, 1957,	
financial position of consumers.....	17414	advance releases.....	3180
housing of nonfarm families.....	17414	State finances, 1958.....	5711
preliminary findings.....	6165	State finances, 1959.....	13869, 17283
cooperatives, policy.....		State government, 1958, com-	
formation.....		pendium.....	7225
through balance sheet analy-		State payments to local govern-	
sis.....	398	ments.....	13830
corporations, foreign operations		summary.....	5711
under Federal reserve act,		statistics—	
regulations.....	406	Federal reserve chart book.....	2558,
county government statistics, cen-		11095, 16344	
sus of governments, 1957.....	13829	institutions of higher education,	
current expenditures per pupil in		summary, 1955-56.....	8937
public schools, urban systems,		treasury bulletin.....	2974, 11522
1957-58.....	16255	Treasury financing and debt man-	
daily statement of Treasury.....	2971, 11520	agement (remarks).....	4116
defense contract regulations.....	8916	TVA and its power operations,	
faith in the future (remarks).....	2120	brief report, 1958.....	15226
financial administration, National		United States balance of payments,	
Guard regulations.....	6807	1958-59.....	17415
financial statements form and con-		United States condition, investiga-	
tent.....	1164	tion, hearings, analysis.....	14558
flow of funds, savings and invest-		Vietnam, North, management func-	
ment, quarterly presentation.....	16347	tions in basic construction	
governmental—		field.....	9169, 12801
census of governments, 1957.....	1463,	watch your cash, small business	
7192, 13828-829, 15463,	17278	management aids.....	15184
in United States, 1962-57.....	4350	see also Accounts and account-	
in United States 1958.....	13865, 17282	ing—Inflation (finance)—Re-	
in United States, historical sum-		volving funds.....	
mary.....	11773	Finance Committee, Senate:	
governments, compendium, 1957		calendar.....	2469, 11002
census.....	15463	hearings.....	4739, 6053-54, 10033-34,
interest rates and financial manage-		12530-533, 14557-559, 17352	
ment (address).....	16345	reports.....	6005,
International, role of U.S. Govern-		6027, 6030, 7575-76, 7594, 8843,	
ment (remarks).....	10628	9990, 10001, 10005-6, 12416-	
joint financing of air navigation		421, 12423, 12516-517, 14446-	
services in Greenland and		452, 14522-524, 14534, 14541,	
Faroe Islands and Iceland,		16047, 16055-56, 16120, 16128,	
agreement.....	9512	16135, 16182.	
maintaining policies to preserve		views.....	6005, 7594,
strong currency, etc. (ad-		14451, 14541, 16047, 16128	
dress).....	17148	Finance companies:	
manufacturing corporations, quar-		automobile financing practices,	
terly report.....	2599, 11136	hearing.....	331
metropolitan areas, census of gov-		sales finance companies (period-	
ernments, 1957.....	17278	ical).....	2590, 11127
municipalities and township gov-		Finance decisions, see Interstate Com-	
ernments statistics, census of		merce Commission.	
governments, 1957.....	13828	Financial and operational plans of	
owner-occupied residential proper-		Soviet equipment and repair	
ties, U.S., national housing in-		stations.....	3692
ventory, 1956.....	215	Financial statistics, see Finance.	
private financing stimulation for		Financing public school buildings.....	8944
housing insured under FHA		Fine arts, see Art—Paintings.	
sec. 220 and 221.....	6992	Fine Arts Commission:	
public schools—		appropriations, 1960—	
facilities, financing.....	7669	hearings.....	5911, 8883
State provisions affecting.....	7666	law.....	11961
public 2-year colleges, financial		reports.....	5876, 8713, 8844
support patterns.....	17376	publications, price list.....	5378
publications, price list.....	6905	16th report, print as document, re-	
receipts—		port.....	15792
1958 and 1959 estimates.....	15980	Fink, Chaim B., relief.....	12085
1959 and 1960 estimates.....	15981	Finland:	
receipts and expenditures of U.S.—		economic developments, 1958.....	7784
combined statement, 1958.....	1235	guaranty of private investments,	
final statement.....	2973	agreement.....	15221
monthly statement.....	2972, 11521	import tariff system.....	16422
rural school, U.S., 1955-56, se-		surplus agricultural commodities,	
lected indexes.....	16251	agreement.....	5433, 4094
rural trade and finance control sys-		United States Education Founda-	
tem, implementation, transla-		tion, agreement.....	13623
tions on Communist China's		Finley, Cecil E., relief.....	12058, 14408, 15374
economic services.....	13184	Fins (aircraft):	
school district statistics, census of		actuated jet vane control system	
governments, 1957.....	1463	for stabilization of rocket-	
announcement and order form.....	1459	powered models.....	3907

# JANUARY-DECEMBER

	Entry		Entry
Fins (aircraft)—Continued		Fire extinguishers, monobromotrifluoromethane, capacities and cylinder dimensions, military standard.....	1587
configurations, force measurements on cone-cylinder body of revolution at Mach 4.0.....	6703	Fire extinguishing, <i>see</i> Fires.	
ventral, effects on lateral-stability derivatives of 45° swept high-wing model oscillating in yaw, wind-tunnel investigation.....	10483	Fire extinguishing agents, dry chemical powders, determining compatibility with mechanical foams.....	15130
Fir:		Fire fighting, <i>see</i> Fires.	
balsam—		Fire-fighting apparatus:	
direct seeding and planting in northern Wisconsin.....	14723	aboard vessels, Coast Guard to prescribe regulations—	
groundwood pulping.....	6254	law.....	15624
Douglas—		reports.....	12478, 14295
damage by engraver beetles.....	9090	coal mine facilities compared with other industrial plants.....	16700
diameter growth of plantation-grown trees under varying degrees of release.....	10177	Federal supply schedule.....	7733
plywood, standard of trade.....	9678	motorized, facts for industry.....	13863
salvaging old-growth with mobile high-lead yarder, yarding and loading costs.....	16439	sprinkler systems, standpipes, and hose stations, military construction.....	382
sawtimber stand in Coos and Douglas Counties, Oreg. mortality.....	493	Fire fuels in red pine plantations.....	3565
silvical characteristics.....	1694	Fire prevention, <i>see</i> Fires.	
site index charts in Pacific Northwest.....	492	Fire protection, <i>see</i> Fires.	
slash burning influence on regeneration, other plant cover and fire hazard in region.....	3578	Fire retardant coatings, <i>see</i> Coating materials.	
small seed trap performance in California.....	16442	Fire sprinklers, military construction.....	382
suitability for hardboard.....	3563	Fire-trailers, <i>see</i> Trailers.	
test planting on steep south slope.....	6266	Firearms:	
Wind River plantation spacing tests.....	9106	international traffic, regulations.....	5418
grand silvics.....	14721	special excise taxes amend internal revenue code, report.....	14268
noble, silvical characteristics.....	494	Firedamp, <i>see</i> Fire damp.	
subalpine, groundwood and sulphate pulping experiments.....	1681	Firehold River, fishery management studies.....	14675
white—		Firemen (fire fighters):	
defoliation by Douglas-fir tussock moth, mortality in California, 1957.....	1672	on-the-job training package.....	7110
silvical characteristics.....	1675	salaries, 1954-58.....	888
Fire, <i>see</i> Fires.		social security coverage in—	
Fire ants, <i>see</i> Ants.		California, Kansas, North Dakota, Oklahoma and Vermont, law.....	15649
Fire clay, <i>see</i> Clay.		Oklahoma and Vermont, report.....	6027
Fire control, <i>see</i> Forest fires.		Firemen (stokers):	
Fire control (gunnery):		examination announcement.....	4386
naval ordnance and gunnery, textbook.....	6851	Fires:	
systems effects on tracking accuracy.....	15051	aircraft, fire fighting and rescue manual.....	1246, 11558
Fire control technicians, aviation technician 2, Navy training courses.....	6844	airplanes, evaluation of fire-detection systems proposed for Martin YP6M powerplant.....	7699
Fire-cured tobacco, <i>see</i> Tobacco.		B-58 crew rescue and fire fighting handbook.....	5591, 7099
Fire damp, ignition by explosives, influence of borehole free-space.....	13367	behavior training course at Alexandria, La., 1959.....	16437
Fire Defense Advisory Committee, National fire defense policy (address).....	15507	coal mine firefighting facilities compared with other industrial plants.....	16700
Fire Department of D.C.:		control policy in civilian defense (address).....	15507
relief or retirement compensation of former members and their widows, widowers, and children, increase, report.....	16164	convection column influence on radiological fallout patterns.....	12748
retirement and disability act, make applicable to former members and their widows, widowers, and children—		crash—	
hearings.....	8727	combined water-bromotrifluoromethane protection system for turbopropeller engine.....	15078
report.....	8637	protection for T-56 turbopropeller engine using water as cooling agent.....	9385
Fire departments:		turbopropeller aircraft, origin and prevention.....	9359, 16742
volunteer, surplus property for use—		Federal Fire Council, minutes of meeting.....	4918
hearings.....	17353	fire control notes (periodical).....	2649, 11188
report.....	14247	fire-extinguishing studies of Northrop F-89 powerplant.....	4810
Fire detection, <i>see</i> Fires.		fire-fighting fundamentals, etc., on-the-job training package.....	7110
Fire escapes, classification bulletin.....	13539	helicopters—	
		crash accidents, study.....	7700
		detection and resistance, studies.....	9479
		ignition hazards and fire resistance of Boeing 707 powerplant, study.....	4800



# INDEX, 1959

	Entry
<b>Fires—Continued</b>	
loss to government property in U.S., 1958.....	4920
prevention—	
farm losses, etc.....	13736
sprinkler systems, standpipes, and hose stations, military construction.....	382
prevention and protection, naval shore establishments.....	13669
protection—	
AEC and contractor conference proceedings.....	8411
publications, list.....	1678
range fires on public domain (remarks).....	13301
safety & fire protection technical bulletin.....	13815
tank vessels, fire fighting manual.....	1501
see also Forest fires—Mine fires.	
Firms, see Business.	
First aid:	
methods for use in focus of atomic, chemical, etc., contamination, USSR study.....	7960
soldiers, field manual.....	13780
First Baptist Church of Plymouth, Mass.:	
land sale, repeal act—	
law.....	15712
reports.....	9987, 14321
First book of grasses, structure of grasses explained for beginners.....	4058
Fiscal accounting, see Accounts and accounting.	
Fiscal Service, Treasury Dept., CP&R memoranda.....	421
Fischer-Tropsch synthesis:	
cobalt and iron catalysts, preparation, etc.....	9334
in fluidized-catalyst reactor with nitrided, fused-iron catalyst.....	6669
Fish and fisheries:	
Alabama landings.....	2605, 10121, 11143
Alaska—	
annual summary, 1957.....	4846
annual summary, 1958.....	12679
fishery management and research, 1958, progress report.....	16388
preliminary review, 1958.....	6190
protection laws, etc.....	7752
Beaufort fishery laboratory, research facilities.....	6188
biological data, south Atlantic Coast.....	7755
bottom fish, explorations from Shumagin Islands to Unalaska, Alaska, summer and fall, 1957.....	9037
California coast, 1957, year of warm water and southern fish.....	432
California landings.....	11145
canned fish—	
consumer purchases.....	4859, 9042, 10132, 12687, 14666, 16383-384, 17429.
retail prices.....	7750, 9041, 10131, 12686, 14665, 16382
canned fish and byproducts—	
annual summary.....	6187, 7738
list of producers.....	2633, 11171
chemical compounds formed during spoilage of fish.....	16378
Chesapeake fisheries, annual summary, 1957.....	1635, 7739
collected in Aleutians, 1936-38.....	17430
Columbia River Basin resources, Interior Dept. of study, hearing.....	16209
commercial dealers list.....	2633, 11171
commercial fisheries—	
organizations and officials concerned, 1959.....	16381
outlook, market, supplies, etc.....	4857, 9039, 14664

	Entry
<b>Fish and fisheries—Continued</b>	
commercial fisheries abstracts.....	2608, 11146
commercial fisheries review.....	2609, 11147
separates.....	422-433, 1637-39, 3494, 4848-54, 7743-44, 9036-38, 10127-128, 12681-684, 14661, 16372-378
conservation of fish in dam reservoirs, establish research program, report.....	14487
consumer education program, fish and seafood parade, Oct. 19-25, 1959.....	14662
culture, classification, Library of Congress.....	8016
culture, Rochester, Ind., station, exchange of lands, hearings.....	317
current fishery statistics, CFS series.....	1634-36, 2606, 3491-92, 4846-47, 6180-87, 7737-41, 9031-35, 10121-123, 11143, 11145, 11149-157, 11159-161, 11165-167, 11169, 12678-680, 14659-660, 16370-371, 17425.
depressed segments of U.S. industry, 5 year program of assistance, hearings.....	318
development opportunities in small watershed program (paper).....	10588
dried fish solubles, preparation from concentrated press liquors.....	425
eastern Pacific, Vinciguerra lucetia and related species, development and distribution.....	3497
effects of insecticides, etc., Interior Dept. to continue studies—	
hearings.....	317
law.....	15644
reports.....	14488, 15816
electrical resistivity meter in fishery investigations.....	7758
electrofinishing, applications of salt, effectiveness.....	3513
enzymes in tissue under study.....	433
Federal aid in fish and restoration program, quarterly review.....	2610, 11148
fish and shellfish cookery, publications available from Superintendent of Documents.....	10558
fish and wildlife act of 1956, facilitate application and operation, hearings.....	17356
fish behavior studies laboratory.....	4864
fish-bone detection device for fillets.....	10128
fish consumption in public eating and drinking places.....	10138
fish portions, production, annual summary, 1958.....	6181
Fisheries Instrumentation Laboratory offers biologists new research tools.....	10127
fishery bulletins.....	1640, 3495-3501, 4855, 6189, 7746-49, 10129-130, 12685, 14663, 16379, 17426-428.
fishery leaflets.....	434, 1641, 3502-6, 4856-59, 6190-92, 7750-51, 9039-45, 10131-134, 12686-687, 14664-666, 16380-385, 17429.
fishery products—	
exemption under fair labor standards act.....	8268
imports and exports, 1954-58.....	14659
Interior Department standards, types of inspection services available.....	429
manufactured, 1957, annual summary.....	3492
manufacturers list.....	2633, 11171
processing for low-sodium diets, recommendations.....	10128

# JANUARY-DECEMBER

	Entry
Fish and fisheries—Continued	
fishery products—continued	
rancidity measurement by 2-thio-	
barbituric acid method.....	4853
fishing for food, factual informa-	
tion, conservation notes.....	10124
fishing for tuna, exploratory long-	
line in Gulf of Mexico and	
Caribbean Sea, 1954-57.....	12681
flavor and odor, chemical compo-	
nents.....	14661
Florida landings.....	2613, 9034, 11151
Florida red tide problem, large-scale	
experimental test of copper sul-	
fate as control method.....	6197
freezing and packaging, use of corn	
sirup solids.....	9038
freezing at sea, economic analysis..	4848
frozen fish—	
monthly report.....	2614, 11152
production, annual summary....	6182
products, control of drip.....	16378
report, preliminary.....	2634, 11172
furunculosis disease of fish.....	3505
game fish, migratory marine spec-	
ies, research by Interior	
Dept.—	
law.....	15723
reports.....	15815, 16170
Georgia landings.....	2615, 4847, 11153
Gloucester landings, trawl indus-	
trial fishery, summary.....	428
Gulf fisheries, annual summaries..	1636, 16371
Gulf of Mexico industrial fish,	
proximate composition.....	16375
handling fish aboard Massachusetts	
fishing vessels.....	433
hatcheries, use of water storage	
space in Table Rock Reservoir,	
Mo.—	
law.....	11980
reports.....	7584, 8715
hatchery at Orangeburg County,	
S.C., acceptance by, S., report..	14490
hatchery in northwestern Pennsyl-	
vania, establish—	
law.....	14058
reports.....	12152, 12505
Hungary, general information....	729, 1832, 6434, 10277, 12991, 13100, 13168, 17582
Indian rights at Cello Falls, Oreg.,	
payment for destruction ex-	
empt from income tax, report.....	12124
international convention of 1949,	
protocol amending.....	6956
interstate transportation of live	
game fish and eggs, clarify	
black bass act—	
law.....	14060
reports.....	12151, 14485
Japanese fisheries based in over-	
seas areas.....	9045
loan fund authorization, increase,	
hearings.....	317
loans for vessels, gear, and re-	
search, financial assistance.....	4858
Louisiana landings.....	2616, 11154, 14660
lymphocystis diseases of fish.....	3503
Maine landings.....	2617, 7740-41, 11155
management activities by States,	
donate surplus property, hear-	
ings.....	17353
management and ecology of fish-	
eries, doctoral dissertations,	
list.....	7753
management studies, Madison River	
system.....	14675
Massachusetts landings.....	2618, 10122-123, 11156
metabolism, intermediary of fishes..	9050
Middle Atlantic States fisheries,	
1958, annual summary.....	16370
miscellaneous bills, hearings.....	317

	Entry
Fish and fisheries—Continued	
Mississippi landings.....	2619, 9032, 11157
Mississippi River fisheries, annual	
summaries.....	1634, 17425
mobile laboratories for fishery tech-	
nological research.....	422
New England groundfish industry,	
market development plan.....	3493
New Jersey landings.....	2621, 6183, 11159
New York landings.....	2622, 9033, 11160
North Carolina landings.....	2623, 6185, 11161
North Vietnam industry, articles.....	10215
nutritional value of fish with refer-	
ence to atherosclerosis and	
dietary research.....	424
Ohio landings.....	2624, 11162
oxidative enzymes in tissue.....	430
Pacific Coast—	
bounties to control depredations	
of dogfish sharks, report.....	16044
chemical composition research.....	16378
dogfish shark depredations, in-	
vestigate methods of control,	
etc., hearings.....	317, 10047
Pacific Coast States, annual sum-	
mary, 1957.....	3491
packaged fish, annual summary....	6186, 7737
Pearl Harbor private fishery rights,	
compensation for taking.....	5821, 7533, 9758
pelagic fish eggs and larvae off Cali-	
fornia, and Baja California,	
vertical distribution.....	17428
periodicals, partial list.....	1641
POFI survey, fishery and environ-	
mental data.....	9049
progressive fish-culturist.....	2625, 11163
publications—	
Bureau of Fisheries, 1871-1940..	6201
on fisheries 1958.....	4856
price list.....	9459
purse-seine net, practical method	
of preventing from sinking to	
its full depth.....	12684
radioactive contamination in water	
containing strontium.....	13796
radiobiological studies of fish col-	
lected at Rongelap and Allin-	
ginae Atolls.....	3169
recipes for school lunches.....	6203
research report.....	9046
Rhode Island, landings.....	2627, 9035, 11165
Saginaw Bay, fluctuations in com-	
mercial fisheries, 1885-1956....	9046
serranid fishes, genus Pikea, from	
western Atlantic, new species....	2063
South Atlantic fisheries, annual	
summary, 1958.....	12680
South Carolina, landings.....	2629, 6484, 11167
special scientific reports, fisheries	
series.....	1642, 3513, 4860-65, 6193-6201, 7753, 59, 9047-50, 10135-140, 12688-691, 14673-675, 16388-391
sport fishery abstracts.....	2630, 11168
sport fishery research, 1957-58,	
progress.....	10126
statistical digest.....	9051
tagging pins, corrosion resistance..	4863
test kitchen series.....	6203, 12692
Texas landings.....	2621, 11169
TVA Forestry Relations Division,	
Fish and Game Branch report..	15225
United States and Alaska fisheries,	
preliminary review, 1958.....	6190
United States and Alaska, produc-	
tion, etc., annual summary.....	4846
United States industry, trade re-	
strictions of European Com-	
mon Market.....	4852

# INDEX, 1959

	Entry		Entry
Fish and fisheries—Continued		Fishing gear—Continued	
USSR, high-seas fisheries.....	7751	longline—	
white spot disease of fish eggs and fry.....	3502	estimating maximum fishing depth with chemical sounding tubes.....	7756
see also Diseases of fish—Marine fauna—Scales (fishes)—Wildlife—also headings beginning Fish—Fishing—also names or classes of fish.		using rotating tub, new method of handling.....	1638
Fish and Fisheries Commission, publications, 1871–1903.....	6201	spiny lobster, gear and fishing methods.....	16385
Fish and Wildlife Service:		see also Trawls and trawling.	
circulars.....	3493, 6188, 10124–126	Fishing vessels:	
laboratories, research.....	425, 430, 433, 4853, 7743, 9038, 12683, 14661, 16378.	construction, assistance program—	
poster.....	17431	hearings.....	14347
publications printed and duplicated, monthly list.....	2620, 11158	reports.....	12249, 15803, 16079
refuge leaflets.....	3507–12, 14667–672, 16386	views.....	16079
regulatory announcements.....	7752, 16387	Federal ship mortgage insurance, clarify functions of Interior Department, report.....	16098
releasees.....	2635, 11173	loan policies, applications, repayments.....	4858
report, 1958.....	9030	Massachusetts, improved handling of fish.....	433
special scientific reports—		Fishmeal, see Fish meal.	
fisheries series.....	1642, 3513, 4860–65, 6193–6201, 7753–59, 10135–140, 12688–691, 14673–675, 16388–391.	Fishways:	
wildlife series.....	6202, 10141, 14676–677	capacity experiment, 1956.....	12690
Fish as food, see Fish and fisheries.		passage of salmonoids through darkened fishway.....	10139
Fish bait, see Bait.		problem of capacity measurements.....	10140
Fish Creek, test well in area.....	7852	Fission, see Nuclear fission.	
Fish cultural stations, see names of stations.		Fission products:	
Fish culture, see Fish and fisheries.		decay energy, literature search.....	15421
Fish hatcheries, see Fish and fisheries—also names of hatcheries or places where located.		soil and plant relationships.....	11747
Fish meal:		TNCC 4th meeting technical papers.....	4332
annual summary.....	9031	uranium, effect on development of progeny of dogs, USSR study.....	10356
production, monthly reports.....	2611, 11149	Fitness and the future.....	17029
proteins, nutritional evaluation of processing variables.....	16377	Fittings (auxiliary parts):	
Fish 'n' seafood parade, Oct. 19–25, 1959.....	14662	gas, manual.....	8961
Fish nets:		Fitzsimmons Army Hospital, Medical Nutrition Laboratory, report.....	5633
albacore gill nets, construction and catch selectivity.....	16376	Five Civilized Tribes, see Choctaw Indians.	
purse-seine net, method of preventing sinking to full depth.....	12684	Five foot drop test for use in production of fuzes.....	4767
Fish oil:		Five-stage solid-fuel sounding-rocket system.....	6781
annual summary.....	9031	Fixtures (for offices, etc.):	
fishy odors and autoxidation, discussions.....	10128	labor turnover rates per 100 employees.....	7988
production, monthly reports.....	2611, 11149	Fixtures (lighting), see Lighting fixtures.	
research for new uses.....	16378	Flags:	
studies on relationship of fish oils to circulatory diseases initiated.....	1639	United States—	
Fish scales, see Scales (fishes).		commemorative stamp (poster).....	9453
Fish sticks:		design and dimensions, clarify law and procedure, report.....	4552
and portions, reports.....	6180–81, 11150	our flag, story, etc.....	4280
quality improved by better packaging.....	430	popular publications available from Supt. of Documents.....	8182
report.....	2612	presenting to congressional delegation from Alaska—	
Fisheries, see Fish and fisheries.		law.....	7307
Fisheries Bureau, publications, 1903–1940.....	6201	reports.....	4718, 7373
Fishermen, excise tax exemptions granted.....	3506	to be flown at half staff on death of last surviving veteran of War between the States—	
Fishery marketing specialists, examination announcement.....	5723	law.....	14017
Fishery methods and equipment specialist, examination announcement.....	5723	reports.....	12431, 14225
Fishery products, see Fish and fisheries—names of products.		Flames:	
Fishes, see Fish and fisheries.		communication through cylindrical channels.....	6670
Fishing, see Fish and fisheries.		flashback of hydrogen-oxygen-nitrogen, hydrogen oxidation study.....	2052
Fishing gear:		stability effect of gases ejected into stream from bluff-body flameholder.....	15085
loan policies, applications, repayments.....	4858	see also Combustion.	

# JANUARY-DECEMBER

Entry	Entry
Flaps (aircraft):	Flaps (aircraft)—Continued
aerodynamic loads, two-dimensional	trailing-edge—
investigation of flows and	aileron, effectiveness and loading
forces on 9-percent-thick air-	characteristics, transonic tun-
foil with 30-percent-chord	nel investigation..... 10481
flap..... 6745	controls on trapezoidal wing,
air load distributions from leading-	aerodynamic characteristics at
edge and trailing-edge blow-	Mach numbers of 1.61 and
ing..... 1073	2.01..... 15063
areo-suction ejector, low speed	deflected delta fin in free flight at
characteristics of 35° swept-	Mach numbers from 1.5 to 2.6,
wing so equipped, flight tests..... 958	measurement of aerodynamic
blowing and wing leading edge, sur-	heat transfer..... 10486
face pressure distributions..... 1078	effects of inset tab on hinge-
blowing, wind-tunnel tests of air-	moment and effectiveness char-
plane model with unswept, as-	acteristics..... 5251
pect-ratio-10 wing, etc..... 1087, 16874	flight evaluation of wing-shroud-
control, high pressure blowing over	blowing boundary-layer control
flap and wing leading edge..... 1072	system of F9F-4 airplane..... 16754
delta wing, aspect-ratio-8.2, con-	horn-balanced control on 55°
trol, hinge-moment, etc. at	sweptback wing, transonic and
Mach numbers 0.72 to 1.96..... 1068	supersonic characteristics..... 1069
double slotted, etc., low-speed pres-	low-speed tests of semispan-wing
sure-distribution investigation	models..... 8076
of thin - delta - wing - fuselage	tapered 45° sweptback wing,
model..... 1063, 6744	low-speed investigation of high-
double slotted, swept-wing trans-	lift lateral control device..... 1061
port model, longitudinal aero-	35° swept-wing airplane
dynamic characteristics in-	blowing-type boundary-layer
vestigation..... 17747	control application..... 5217
external-flow, jet augmented double	suction area boundary-layer
slotted, wind-tunnel investiga-	control application..... 5218
tion of sweptback-wing jet-	Flash ranging crewmen, MOS pro-
transport model..... 6783	ciency test aid..... 4287
external-flow jet-augmented, in	Flashlight cases, facts for industry..... 9717
low-speed flight, wind-tunnel	Flatware, stainless steel, trade agree-
investigation of aerodynamic	ment escape clause, investiga-
characteristics of supersonic	tion..... 13639
fighter-class airplane..... 16890	Flatworms, see Polyclads.
free-floating, possibility of simpli-	Flavors, development correlation with
fying missile guidance sys-	chemical changes in radiation
tems by use..... 6691	sterilized foods..... 4037
full-span and inboard half-span, jet-	Flax, equilibrium moisture content of
augmented, aerodynamic char-	fiber flax..... 7071
acteristics of wing so	Flaxseed:
equipped..... 5274	acreage, yield, production, etc., by
jet-augmented configurations, noise	States, 1866-1953..... 11654
characteristics..... 3938	growing, North Central States..... 92
jet, in conjunction with plain flap	marketing practices and costs at
with blowing boundary-layer	country elevators..... 4182
control..... 5289	storage at country elevators, Min-
leading-edge—	nesota, North Dakota, and
area-suction, use to improve high-	South Dakota..... 13732
lift, characteristics of airplane	Fleming, Robert V.:
model..... 959	appointment—
effect on lift, drag, and pitching	law..... 5779
moment of airplane employing	reports..... 4373, 4721
thin unswept wing..... 10469	Fletcher, Fred A., and wife, relief..... 8784,
modifications, etc., effects on low-	9818, 11927
lift wing drag at transonic and	Flexor reflex, see Muscles.
supersonic speeds..... 3913	Flies:
leading-edge and trailing-edge—	agromyzid leaf miners from North
area-suction and modifications,	America, synopsis of species..... 5326
wind-tunnel tests of model	biting midges of genus Culicoides..... 15097
with 45° sweptback wing of	fruit, control with poisoned-bait
aspect ratio 2.8..... 957	sprays in Hawaii..... 42
area-suction on 13-percent-thick	genus Odinia in Western Heml-
wing and fuselage, wing-tunnel	sphere..... 9408
investigation..... 960	hemlock sawfly, description, life
blowing boundary layer control,	history, etc..... 4897
full-scale wind-tunnel tests..... 16919	horn flies on cattle, how to control..... 5540
blowing boundary layer control,	horse bot, life history and control..... 9609
investigation..... 3928, 15073	ichneumonid—
low-speed investigation of blowing	America north of Mexico, sub-
from inboard upper surface	family Metoplineae..... 5325
mounted nacelle of aspect	final instar larvae, description
ratio-7.035° swept wing with	and classification..... 16953
fuselage and various tail ar-	narcissus bulb fly damage in home
rangements..... 10492	gardens, prevention methods..... 4173
propeller-wing-flap configurations,	Neodiprion taedae linearis, pest of
vertical, and short-take-off-and	lobolly and shortleaf pines..... 4900
landing airplanes, estimating	sorghum midges, suggestions for
lift and drag characteristics..... 5264	control..... 3053
	Flight:
	Air Force personnel, flight status,
	manual..... 126

# INDEX, 1959

	Entry		Entry
<b>Flight—Continued</b>		<b>Flight crews—Continued</b>	
Caribbean and South America, information, corrections.....	2315	dry and wet clothing, effect on body cooling at low air temperatures.....	7123
characteristics of single-engine jet airplane, effect of controllable thrust reverse.....	9375	evasion and survival behind enemy lines, test for prediction of performance, CREWSCAT problem form and manual erratum.....	4265
Europe, Africa and Middle East, information, corrections.....	2304	fatigue problems, plan to investigate psychophysiologic effects during extended endurance flight.....	8372
five-stage solid-fuel sounding-rocket system performance data.....	6781	Flight indicators, <i>see</i> Indicators.	
flying safety (periodical).....	2299, 10751	Flight instruments, <i>see</i> Aeronautical instruments.	
free-flight test of high altitude techniques for inflating NASA 12-foot-diameter sphere.....	3933	Flight simulators:	
glide tests, satellite vehicle of fixed configuration upon reentry into earth's surface, lift-drag ratio and speed.....	6785	extra-cockpit visual cues in contact flight transition trainers—	
hazards, meteorological information for naval aviators.....	3003	bibliography.....	154
hypersonic, shielding stagnation surfaces of infinite catalytic activity by air injection.....	13450	study.....	153
information manual.....	4800	fixed and moving, use for pilot-control problems.....	5296
Alaska.....	10095	Flight surgeons, <i>see</i> Surgeons.	
Hawaiian and adjacent Pacific area.....	2512, 11044	Flitches, heating rates for logs, bolts, etc., to be cut into veneer.....	17455
notices to airmen.....	11045	Floating bridges, <i>see</i> Bridges.	
installations, applicable methods for turbojet thrust measurement.....	2036	Floating equipment, plant list, Engineers Corps manual.....	16266
instructor ratings and certificates validity and exchange, civil air regulations amendment.....	3441	Flood control, <i>see</i> Floods—also names of certain rivers.	
MATS flyer (periodical).....	2302, 10754	<b>Floods:</b>	
measurements—		California, 1958, report on damages and recommendations for action.....	7482
dynamic longitudinal stability and frequency-response characteristic of XF-92A delta-wing airplane.....	1021	control, laws relating to, compilation.....	285
propeller noise at range of speed up to Mach number 0.72.....	8067	control projects—	
transonic and supersonic speeds, summary of pitch-damping derivatives of complete airplane and missile configurations.....	3909	hearings.....	12308, 14578
operations and airworthiness inspector, examination announcement.....	4380	reports.....	8712, 12174
operations and airworthiness release.....	2516	veto (S. 497), analysis.....	7481
Pacific and Far East, information, corrections.....	2303	floods of 1952 (series).....	7857
path optimization, airplane performance.....	17760	floods of 1953 (series).....	9122, 16470
paths, kinematics of avoidance of collision between aircraft analyzed on curvilinear flight trajectories.....	17801	floods of 1954 (series).....	14757
pilot instruction manual.....	1613	Indiana, June–July 1957.....	516
planning document, Air Force and Navy—		Louisiana and adjacent States, Apr.–June 1953.....	9122
inserts.....	1361, 13773, 15355–356	national damage potential, reducing, memorandum.....	17361
revisions.....	1362, 3120, 4266–68, 7116–20, 8366–68, 9640, 11679–682, 13774–776, 15353–354, 17229–231	prevention, economic guide.....	5410
primary flying techniques, procedures, maneuvers, ATC manual.....	9631	reducing national damage potential, TVA program.....	13645
radial acceleration, physiological reactions of man, USSR.....	1769	TVA control operations.....	17881
studies of problems pertinent to operation of jet transports—		United States—	
high-speed.....	6773	1952, summary.....	7857
low-speed.....	6771	1953, summary.....	16471
supersonic, aerodynamic heating, methods of reducing, discussion.....	16752	1954, summary.....	14757
<i>see also</i> Air speed—Instrument flying—Military education.		watershed protection and flood prevention act, amend to provide loans for other projects, report.....	15852
<b>Flight crews:</b>		western Oregon and northwestern California, Jan. 1953.....	16470
absence from duty stations, civil air regulations amendments.....	7692–95	<i>see also</i> names of rivers, etc.	
		Floor, Nancy M., relief.....	8565, 14419, 15586



# JANUARY-DECEMBER

	Entry		Entry
<b>Florida—Continued</b>		<b>Flow—Continued</b>	
climate.....	8270	air—continued	
climatological data.....	2993, 11546	effect of oxygen recombination, errata.....	3917
core drilling, land-pebble phosphate district, geologic exploration results, 1953.....	10189	unequal distribution from inlet ducts, effect on performance of axial-flow turbojet engine.....	16779
eastern, storm warning facilities chart, 1959.....	15240	axial—	
electric rate book.....	8995	compressor rotor-blade wakes and other flow phenomena examined with hot-wire anemometer.....	10472
Gulf Coast sandhills, preparing for planting pines.....	498	compressor turbojet engine, static sea-level performance with air-cooled turbine.....	6709
housing for migrants.....	5164	compressor with transonic inlet stages—	
landings, fishery products.....	2613, 9034, 11151	aerodynamic design.....	975
mail routes, schedule.....	2102	aerodynamic design modification and performance prediction.....	996
mineral industry, minerals year-book chapters.....	1989, 17684	individual stage performance characteristics.....	982
precipitation data, hourly.....	2996, 11549	over-all performance, analysis.....	977, 994
quadracentennial anniversary, commemorate, reports.....	5884, 7580	over-all performance, rotating stall and blade vibration at low and intermediate speeds.....	1001
red tide problem, large-scale experimental test of copper sulfate as control method.....	6197, 10135	compressors and turbines, limitations, imposed on one-spool turboprop engine designs.....	1012
sandhills, need of preplanting site preparation for pine growth.....	14738	effect of reduction in stator solidity on performance of transonic turbine.....	3898
stratigraphy of area between Hernando and Hardee Counties, Fla.....	14747	limitations imposed on one-spool ducted-fan-engine designs by compressors and turbines at flight Mach numbers 0.6-0.8.....	16797
stratigraphy of middle Tertiary rocks, west-central region.....	17487	performance of rear-stage compressor rotor blade row at 3 different blade setting angles.....	2044
tangelos, seasonal change in fruit development, etc.....	15332	turbines, suitable for auxiliary power drives, effect of size on performance.....	6790
territorial papers, 1824-28.....	1099	axisymmetric 2-cone and isentropic nose inlets, performance characteristics.....	16789
territorial papers, 1828-34.....	16936	behind wings, pressure studies and analysis.....	13383
weather stations, decadal census.....	9548	boundary layer—	
west coast, counts of red tide organisms, gymnodinium brevis, and associated oceanographic data, 1954-57.....	12688	aspects of magnetohydrodynamic equations.....	6791
Florida Citrus Exchange, situation at end of 50 years.....	12628	compressible laminar, over yawed infinite cylinder with heat transfer and arbitrary Prandtl number.....	8068
<b>Flotation:</b>		transition caused by various types of roughnesses, effect of highly favorable pressure gradient.....	6754
bulk selective, of ore from Degtyarka deposits USSR laboratory tests.....	646	transition measurements on surface roughnesses.....	5301
combined with roasting process, recovery of mercury from cinabar-stibnite ore.....	3872	transition on flat-faced bodies of revolution at high supersonic speeds.....	16756
experiments in concentrating lead sulfide slime.....	5206	transition on hollow cylinders in supersonic free flight.....	5267
reagents, reaction with surface of gold, silver, copper and their alloys, USSR study of theory.....	1744	visualization, fluorescent-oil film method and other techniques.....	6787
Flounders, decline of yellowtail off New England.....	7745	compressible and supersonic, internal performance of 2-dimensional wedge exhaust nozzles.....	3905
<b>Flour:</b>		compressible, spherical-wave-initiated fields around bodies, investigation.....	3920
imports in tropical Africa, outlook.....	4868	distortions, reducing at subsonic flows by expanded duct sections and screens.....	9363
rye, Tariff Commission report.....	13638	evolution of amplified waves leading to transition in boundary layer with zero pressure gradient.....	16929
Flour beetles, see Beetles.		expander to increase Mach number in supersonic wind tunnel.....	1080
<b>Flour mills:</b>			
Pacific Slope States, factors influencing competition.....	11641		
products, facts for industry.....	2371, 7200, 10902		
<b>Flow:</b>			
aerodynamic characteristics of 6-percent-thick symmetrical circular arc airfoil having 30-percent-chord trailing-edge flap at Mach number 6.9.....	13422		
aerodynamic loads, two-dimensional investigation of flows and forces on 9-percent-thick airfoil with 30-percent-chord flap.....	6745		
air—			
characteristics of cylindrical, cooling-air ejectors with temperature ratio 1.0.....	2026		
characteristics of ejector configuration over range of primary gas temperatures, performance.....	17724		
distribution for tubular turbojet combustor, theoretical analysis.....	8064		

# INDEX, 1959

Flow—Continued	Entry	Flow—Continued	Entry
external-drag effects and pumping characteristics of short injector, investigation at supersonic speeds.....	16813A	laminar and turbulent—Continued	
external interference effects through static-pressure orifices of air-speed head.....	5284	Stanton tube for skin-friction measurements.....	5286
fields at zero sideslip near swept- and unswept-wing-fuselage combinations, investigation.....	1070	laminar, supersonic, turbulent, boundary layer and force measurements on slender cone-cylinder body of revolution, aerodynamic theory.....	2027
free-stream properties, laminar skin-friction and heat-transfer parameters for flat plate.....	16869	magnetohydrodynamic, expansions in Reynolds number.....	13445
hypersonic—		mass-flow and pressure recovery of auxiliary air inlets, transonic investigation.....	13428
approximation, aspects of air-helium simulation.....	16889	measured and theoretical fields behind rectangular and triangular wing up to high angles of attack.....	16908
calculating surface pressures on blunt plates.....	16898	measurement, APPR-1 research and development program.....	172
over blunt flat plate, effect of leading-edge sweep and surface inclination.....	2053	measurements of local heat transfer and pressure on six 2-inch-diameter blunt bodies.....	5259
similarity law, applicability to bodies of revolution.....	3883	mixed—	
incompressible effects of moderate sideslip on flow fields near 45° swept-wing-fuselage combination at low speed.....	16856	improving diffuser-exit total pressure profiles for side-inlet model at Mach number 1.91, methods evaluation.....	5242
incompressible, nonlinear airfoil theory for rectangular wings.....	5302, 13438	pressure distribution at transonic speeds over wedge and circular-arc airfoil sections.....	13448
interaction effects produced by jet exhausting laterally near base of ogive-cylinder model in supersonic main stream.....	3939	one-dimensional, source distribution method for obtaining flow perturbations due to small area variations, mass, momentum, and heat additions.....	10493
internal natural convection, effect of body rotations, errata.....	5257	pressure distribution for bumpy and indented midsections of basic parabolic-arc, body at transonic speeds.....	3927
internal, subsonic and supersonic, reaction control devices performance investigation.....	6755	pressure recovery-mass flow characteristics of scoop-type conical supersonic inlets, effects of internal corner fillets.....	969
jet, from supersonic nozzle, investigation.....	1045	rotor, in lee of mountains.....	5597
jet mixing—		secondary air, to ejector exhaust nozzles, investigation of auxiliary inlets.....	1004
downwash from VTOL aircraft starts surface erosion of terrain.....	16893	shock-tube heat-transfer measurements on inner surface of cylinder.....	16892
experiments relating to simulation problem of hot jet engines in studies of jet effects on adjacent surfaces.....	17731	slip, to free molecule, heat transfer from cylinders.....	8087
noise surveys of rocket engines for range of nozzle exit pressures.....	15076	stability of horizontal fluid layer with unsteady heating from below and time-dependent body force.....	17765
pressure effects on flat surface downstream of exit of turbojet nacelle free-stream at Mach no. 1.39.....	6736	steady one-dimensional, effects of chemical dissociation and molecular vibrations.....	15082
laminar—		straight parallel or zonal barotropic development of eddies, numerical investigation.....	5596
boundary layer effects in pressure gradient.....	10498	subsonic—	
compressible boundary layer solutions of equations with transpiration applicable to stagnation regions of axisymmetric blunt bodies.....	13446	around elliptical spinner, flight investigation.....	3929
compressible boundary layer with heat transfer and arbitrary pressure gradient, charts and tables for estimating stability.....	9377	ducted, screens for removing distortions.....	6750
laminar and supersonic—		gas streams, coaxial jet mixing, investigation.....	5300
oblique shock wave interaction with boundary layer.....	5287	parameters used in computing velocity distributions prior to sudden stalls, analysis.....	15081
some finite difference solutions of compressible boundary layer showing effects of upstream transpiration cooling.....	3936	subsonic and supersonic—	
critical height of roughness particles for boundary-layer transition at Mach numbers 0 to 5, simplified method for determination.....	1093	second order similarity rules.....	8065
heat transfer distribution on 10° cone at angles of attack 0° to 15° for Mach numbers of 2.49 to 4.65.....	9383	separated flows.....	950
		supersonic—	
		aerodynamic characteristics of cone-cylinder configurations.....	1027
		aerodynamic cooling associated with large-scale vortical motions, initial experiments.....	6688
		asymmetric penshape exit discharging into quiescent air, investigation.....	5245

Flow—Continued	Entry	Flow—Continued	Entry
supersonic—continued		supersonic—continued	
ballistic-type missiles, investigation	16748	two-dimensional, pressure rise	
behind wings performing various		required for incipient separation	
motions, estimation tables	8075	of turbulent boundary	
blunt dimensional bodies, with		layers	5268
cross sections, pressure distributions		weak shock waves in monatomic	
at Mach number of 4.95	16925	gas	3941
calculation of perfect-gas flow		surface roughness effect on—	
past bodies supporting shock		boundary-layer-transition tests,	
waves shaped like elliptical		techniques for finishing and	
cones	15077	inspection	3924
canard-type control surface influence		characteristics of spherical shock	
in vicinity of symmetrical		waves	3915
fuselage	16768	temperature distribution behind	
characteristics of square-shaped		cylinders in flow	15087
scoop inlet mounted above		three-percent-thick 60° delta-wing-	
high 45° sweptback wing and		body combination	16851
body, transonic investigation	13425	through microporous media, theory	
drag minimization for wings and		of flow phenomena	4310
bodies	10467	thrust of downward-directed jet	
effect of boundary-layer transition		beneath flat surface, ground	
on average heat transfer		proximity effects	1006
to yawed cylinder	16835	total-pressure loss and airflow distribution	
fluid-dynamic properties of sharp-		in turbojet combustors	3937
and blunt-nosed shapes at		transonic—	
Mach numbers from 16 to 24		effect of stator and rotor aspect	
in helium	10494	ratio on turbine performance	3935
formulas pertinent to calculation		equation, approximate solution,	
of effects due to wing thickness	8078	airfoil theory based on	8061, 9358
four boattailed bodies, load distributions,		equation solution, slender-body	
aerodynamic theory	2033	theory	17763
four bodies having near-parabolic		turbopump system for liquid-propellant	
noses and cylindrical after-	2030	rocket, analysis of	
bodies, aerodynamic theory		starting dynamics	8085
impulse-type supersonic-compressor		turbulent—	
rotor, mean turning of 114°, performance	1067	contraction effect on turbulence	
interference effect of wing on		and temperature fluctuations	
fuselage	16805	generated by warm grid	8088
laminar heat transfer rates on		effect of turbulence level and	
yawed infinite cylinders, theoretical		sandpaper-type roughness on	
investigation	13416	transition on flat plate	5281
method of reducing heat transfer		fluctuations behind heated grid,	
to blunt bodies by air injection	13423	errata	9362
nose inlets, compressive flow		growth of disturbances in flame-	
about axially symmetric isentropic		generated shear region	2019
spikes at Mach number 3.85	16782	heat transfer in boundary layer	1086, 2049
observations at throat of 2-dimensional		shear, mixing of wakes	16905
diffuser at Mach no. 3.85	967	surface finishes, heat transfer	
over afterbodies, jet effects	973	rate to series of 20° cones at	
perfect gas over circular cylinder		Mach number of 4.95	9384
at infinite Mach number, numerical		wall turbulence	6795
solution	6769	turbulent and laminar, heat transfer	
pressure distribution investigation		measurements on missile in	
of supersonic-aircraft		free flight	15066
fuselage of Mach number 1.40		turbulent and viscous, heat transfer	
nozzle of Langley 4- by 4-foot		in presence of streamwise pressure	
supersonic tunnel	10475	gradient, method for computing	5258
ram-jet afterburning as means		two-dimensional, supersonic, linear-	
of varying effective exhaust		ized, with heat addition, analysis	
nozzle area, investigation	3885	of theory	3922
tall and axisymmetric body,		unsteady, single wedge section,	
shock-wave interference at		pressure measurements at	
Mach 1.9	1005	Mach number up to unity	10491
theory, comparison with data for		ventilation about yawed surface-	
investigation of varying maximum		piercing struts, exploratory	
thickness position of delta		study	6765
wings	16813	wake vortex characteristics of inclined	
thermodynamic properties of		ogive-cylinder body at	
nonionized nitrogen-oxygen		Mach number 2	5219
mixtures	13440	windmills for reducing flow distortion,	
turbulent boundary layer, internal		analysis	16796
performance of circular		wing-flow measurements of longitudinal	
auxiliary-air inlets	6704	stability and control	
turbulent boundary layer on		characteristics of supersonic	
yawed cone in supersonic		airplane configuration	18407
stream	17767	Flow-duration curves	17495
		Flowers:	
		cut, production and sales, 1957 and	
		1958	8284
		marketing by wholesale growers in	
		New York and Chicago	7061
		see also names or classes of flowers.	

# INDEX, 1959

	Entry		Entry
Flue-cured tobacco, <i>see</i> Tobacco.		Flutter (aircraft)—Continued	
Fluid-dynamic mechanism of meteorite pitting.....	17077	rotating-wing, rotor blade bending moments and flapping angles, effect of flapping-hinge offset, wind tunnel investigation.....	6775
Fluid-dynamic properties of some simple sharp- and blunt-nosed shapes at Mach numbers from 16 to 24 in helium flow.....	10494	self-excited mechanical oscillations of helicopter rotors.....	2017, 5215
Fluid Fuel Reactor Task Force, report.....	15433	stall characteristics of supersonic-type propeller at positive and negative thrust wind-tunnel investigation.....	9366
Fluids, sprinkling, spraying and diffusing classification bulletin.....	8166	sweptback wing pylon-mounted stores, tested as semi-span wing and as full-span wing.....	16838
Flumes, turbulence, application of data to middle Loup River.....	9128	transonic—	
Fluorescent lamps, <i>see</i> Electric lamps.		characteristics of 45° sweptback wing, effects of center-of-gravity location.....	3916
Fluorescent-oil film method and other techniques for boundary-layer flow visualization.....	6787	characteristics of thin 10° sweptback wing.....	5256
Fluorescent X-ray spectrographic probe-design and applications.....	16724	characteristics of untapered 45° sweptback, aspect-ratio-4 wing.....	6741
Fluoridation, water, better teeth for life.....	6910	2-dimensional—	
Fluorides, natural content of communal water supplies in U.S.— <i>see also</i> names of fluorides.	8196	derivatives for airfoils oscillating in pitch at high supersonic speeds, effects on angle of attack and airfoil profile.....	953
Fluorine:		effects of airfoil profile on derivatives for wings oscillating in pitch.....	15046
compounds, organic acids and salts, wetting of low-energy solids by aqueous solutions.....	13519	wind-tunnel experiments, results.....	5252
disposal by reaction with charcoal. Mines Bureau research program, 1959 and 1960.....	5273	wings and ailerons, flight tests of rocket propelled vehicles in transonic and low supersonic speed range.....	1054
spills, field experiments on treatment with water or soda ash.....	15017	wings, high speeds.....	15069
Fluorite:		Fluvial sediment in Whitehead Watershed and Whitehead reservoirs, Nebr., Apr. 1953–Sept. 1956.....	515
faulting and deposits at mines and prospects, description.....	16894	Flux (neutron), <i>see</i> Neutrons.	
John Burdette barite-fluorite deposit, Garrard County, Ky.....	6282	Flyers, <i>see</i> Aviators.	
mining, increasing labor productivity in Czechoslovakia.....	10455	Flying, <i>see</i> Flight—Instrument flying.	
Fluoroalcohols, applications, development of high temperature lubricants.....	615	FM (radio), <i>see</i> Radio frequency modulation.	
Fluorocarbons:	3991	FNMA, <i>see</i> Federal National Mortgage Association.	
soluble derivatives, adsorption at organic-liquid/air interface.....	8145	Foam:	
surface tension, parachor, and spreadability on organic liquids.....	6857	gelatin, methodology of preparing filters for bacteriological investigation of air, USSR studies.....	5038
Fluoroscopy:		mechanical, determining compatibility of dry chemical powders.....	15180
feasibility of cobalt 60 intensifier image orthicon system, report.....	1389	Fog:	
vital luminescent method aid in study of therapeutic action of sarcosyl in rat sarcoma.....	1892	diagnosis and forecast, USSR study.....	15134
Fluorspar:		dispersal—	
acid-grade, production from domestic mines, stabilizing, hearings, deposits, Big Four fault system, Crittenden County, Ky.....	3330	artificial methods and their evaluation.....	1350
industry, domestic, preservation and development—	6282	thermal techniques, from aircraft runways.....	1351
hearings.....	8897	monodisperse particles, methods of measuring size with radius of 0.1–0.5 microns, USSR study.....	5131
report.....	9985	observational instructions history.....	17160
industry, investigation under sec. 332 of tariff act report.....	16056	whiteout, investigations.....	16268
production, etc., 1958.....	13360	Fog signals, lists, Hydrographic Office.....	528, 1718, 3609, 4935–36, 7865–67, 12778, 14769–770, 16477, 17497–498.
supplement.....	15017	Foil pack meal guide (including recipes and associated equipment).....	11687
report, quarterly.....	2805, 11349	Folds, <i>see</i> Aluminum foil.	
Flutter (aircraft):		Folds (geology):	
control-surface, derivatives of airfoil investigation in high-speed wind tunnel.....	2021	nonparallel, classification, delineation and measurement.....	6294
delta wings, supersonic speeds, methods for computing and comparison with experimental data.....	13442	Folk songs, ballads, dances, etc., of United States and Latin America, catalog of phonograph records.....	6639
incompressible, characteristics of wings.....	8071		
panel, experimental and theoretical studies at Mach numbers 1.2 to 3.0.....	16816		
rectangular wings of low aspect ratio.....	16863		



# JANUARY-DECEMBER

	Entry
Fonk, Betty L., relief-----	4512
Food:	
aid to disaster victims through distribution program, 1958-----	25
Air Force foil pack meal guide, including recipes-----	11687
buying practices and food use of employee food services in manufacturing plants-----	8320
child feeding program, agreement with Italy-----	17115
child's lunch, poster-----	15267
China, habits and ways of serving-----	10210
China, industry and trade, development-----	6364
civil defense home storage program for survival-----	246
code of Federal regulations-----	7721
concept of food as instrument for peace (statement)-----	11652
consumer expenditures-----	1256
consumption--	
income and household size effects-----	13728
North Central region-----	17169
statistics, significance of current developments (paper)-----	11587
United States, 1909-52, 1958 supplement-----	13720
western Europe, recent developments-----	6205
development of conditioned motor reflex to light in prematurely born children, USSR studies-----	1895
distribution, small business problems, hearings-----	12315, 14357
domestic food assistance, report-----	14445
effective use for international peace--	
act of 1959, report-----	14436
United States policy, hearings-----	12535
employees services in manufacturing plants, management appraisals, nature and extent, vending machines-----	8319
Europe's east-west trade-----	6206
F.D.C. regs-----	435-436
farm products marketing bill-----	15250
food, drug, and cosmetic act--	
amend--	
law-----	5776
reports-----	4558, 4597, 4613, 4713
color additives amendments of 1959, report-----	16073
cream and butter requirements, how to meet-----	12693
enforcement and compliance report-----	11176
enforcement regulations, general, insert-----	16393
notices of judgment-----	2637, 11175
requirements guide, foreign manufacturers, etc., erratum-----	3515
text, revised pages-----	7762, 12694
food service, Air Force manual-----	135
	4224, 9628
foreign trade prospects-----	3522
guide for older people-----	8314
home canning and preservation, helpful Government pamphlets, list-----	13563
impact and economic effects of convenience foods, pilot study-----	21
industries, ownership changes by purchase and merger-----	15325
industry and national defense, emergency preparedness (notes used in address)-----	93
irradiated, free radical detection of paramagnetic resonance-----	5393

	Entry
Food--Continued	
manufacturing food and kindred products--	
labor turnover rates per 100 employees-----	7987
plant location by county and employment size-----	7217
marketing--	
differentials in workers earnings, relation to utilization (address)-----	13682
marketing companies, diversification and structure-----	11581
misleading promotion of food supplements-----	15315
	438
national food situation-----	2215, 10670
needs, quality preparation, etc., yearbook of agriculture, 1959--	
departmental edition-----	15308
document edition-----	15762
operation of service facilities on railroad passenger cars, sanitation handbook-----	13561
outlook for 1959 (statement)-----	1268
perishable, laboratory tests of refrigerator cars-----	17201
planning meals for Navy-----	6971
plentiful foods, PF-series-----	2256, 10708
preparation and serving equipment, Federal supply schedule-----	9023
problems, meal planning, etc., study of home demonstration members-----	16316
processed--	
effect of fallout contamination, test-----	8414
prices and price indexes, 1957-----	890
products and processes, Government-owned inventions available for license-----	11867
products in space age (address)-----	52
products, sanitary evaluation, use of Roentgen units and ultrasonic defectoscope, USSR studies-----	3721
publications, price list-----	6904
radiation preservation--	
catalog of technical reports 1951-58-----	9675
chemical and organoleptic changes-----	4035
correlation of chemical changes associated with characteristic flavor development-----	4037
detect formation of toxic agents, USSR study-----	6524
effects on packaging materials-----	8396
research reports-----	11715
sterilized by gamma radiation and stored at room temperature, short-term human feeding studies-----	5633
use of ionizing rays, Rumania--	635
ration standardization by season and climatic zone, USSR study-----	12959
regional consumption, study-----	15276
regulations--	
Colombia-----	14697
Ecuador-----	17444
retail prices, 1957-58--	
departmental edition-----	10404
document edition-----	9804
retail prices by cities-----	2743, 11280
school lunch market development (remarks)-----	7028
science in good eating (talk)-----	5520
standards, information-----	9058
stores, retail profit based upon optimum inventory turnover (talk)-----	7029
supplies in retail stores, civil defense study-----	105

Do not order from index; see indicated entry

Page 225



# INDEX, 1959

	Entry		Entry
<b>Food—Continued</b>		<b>Football, organized professional teams, commercial activities applicability of antitrust laws, hearings</b>	338, 16214
surplus, distribution to needy—		<b>Footwear, see Boots and shoes.</b>	
food stamp plans—		<b>Forage plants:</b>	
hearings	15934	Colorado mountain meadow areas, production, economics, progress report	15282
minority report	14261	deadening scrub hardwoods livens up forage	3586
various programs, hearings	10021	forage and feed, Federal supply schedule	3485
trading stamps and their impact on prices	3067	ten-year timber-cutting cycle provides continuing supply	1676
USDA grade marks	20	white grubs, control	7049
wholesale, distribution center, Philadelphia, Pa., dedication (address)	11614	Forbes, David, relief	4676
see also Canned food—Nutrition—School lunches—also names of foods.		<b>Force and energy:</b>	
<b>Food and Drug Administration:</b>		electron slowing down, energy spectrum resulting	5311
F.D.C. regs.	435-436	energy production and fusion products from thermonuclear plasma	17809
FDA publication	3515	nose inlets, characteristics	5225
grain sanitation program	439	wave forces on piling, large-scale tests	10088
leaflets	440, 12693	wave run-up on roughened and permeable slopes, laboratory data	8969
report, 1958	9057	<b>Forced air fruit cooler, farm building plan</b>	17204
report on enforcement and compliance	11176	<b>Forced labor, abolition, ILO convention, text</b>	4457
service and regulatory announcement	4867	<b>Ford Motor Co., wage chronology 1955-59</b>	17668
technical bulletin	14681	<b>Forea centralls, see Retina.</b>	
what it is, and does	437	<b>Forecasts, see Weather forecasts.</b>	
<b>Food, drug, and cosmetic acts, see Cosmetics—Drugs—Food.</b>		<b>Foreclosure of mortgages, see Mortgages.</b>	
<b>Food facts vs. food fallacies</b>	438	<b>Foreign affairs, see International relations.</b>	
<b>Food for cattle, see Food for livestock.</b>		<b>Foreign Affairs Committee, House:</b>	
<b>Food for fish:</b>		activities, Jan. 7-Sept 15, 1959	17333
basic food of squawfish <i>Ptychocheilus oregonensis</i> , of lower Columbia River	17426	calendar	2451, 10982
water soluble vitamin requirements of silver salmon	4865	hearings, etc.	1546
<b>Food for livestock:</b>		3322-23, 4649-52	7463-66
consumption, 1909-56	111	8731-34, 14334-338, 17333	15942
dairy cattle, concentrate rations fed to milk cows, 1958	4145	<b>Investigations and studies—</b>	
electric controls for automatic feed handling systems	13709	foreign policy operations, etc., authorization, report	3300
emergency programs, State participation, report	12190	matters within its jurisdiction, expenses, report	4560
feed additives, minerals and vitamins for dairy cattle	7036	minority report	9834
feed market news, weekly	2241, 10695	reports	4603-4, 5854, 5875, 7420, 9834, 9849-50, 9889, 12050-52, 12253, 14189, 14223-224, 14251, 14308, 14312, 15787, 15855, 15862, 15872-875, 15897
feed situation	2204, 10661	views	9834, 9849, 14223
forage and feed, Federal supply schedule	3485	<b>Foreign Affairs School, Foreign Services Institute, catalog and general information</b>	6943
formula feed production, labor efficiency	8280	<b>Foreign agents:</b>	
grain and feed statistics, supplement	5555	registration act—	
livestock fed annually, 1909-58, statistics	17211	administration, report, 1958	10391
measurement of feed efficiency (talk)	9594	amend, report	15800
needs in relation to volume of livestock produced	11600	<b>Foreign Agricultural Service:</b>	
sales of CCC commodities in emergency areas—		agricultural attachés, assignment in U.S. without change of grade, report	15819
law	15664	appropriations, 1960, Agriculture Dept., hearings	5909
reports	14320, 14502	foreign agriculture reports, list	9064
<b>use of industrial wastes of chlortetracycline, USSR study</b>	10351	miscellaneous, FAS-M series	444-446
see also names of feeding stuffs.		3516-17, 4868-69, 6205-10, 7663-65, 9059-62, 10142, 12696, 16394-395, 17432-433	
<b>Food for poultry, broiler feeding</b>	3047	list	9063
<b>Food lockers, see Cold storage.</b>		programs and foreign relations (address)	17434
<b>Food preservation, see Food.</b>		<b>Foreign agricultural workers, see Farm labor.</b>	
<b>Food stamps:</b>		<b>Foreign agriculture, see Agriculture.</b>	
demonstration programs, report	14445	<b>Foreign agriculture circulars</b>	2643, 11182
program for distribution of surplus foods to needy—			
hearings	10021, 15934		
minority report	14261		
report	14261		
<b>Food stores, see Stores.</b>			
<b>Foods, see Food.</b>			
<b>Foot, cold injury, technical bulletin</b>	167		

# JANUARY-DECEMBER

	Entry
Foreign aid :	
American policy today (address).....	7968
Arab world, economic development planning (address).....	2151
community development review.....	2684, 11224
coordinated national estimate relative to U.S. foreign policy, hearings.....	6059
counterpart funds and ICA foreign currency.....	2685, 11225
countries receiving to guarantee freedom of speech, press, and religion—	
report.....	9849
views.....	9849
development assistance agreement with Lebanon.....	1199
economic aid, special project expenditures, agreement with Yugoslavia.....	5424
economic and financial assistance, amend mutual defense assistance control act of 1951, report.....	12490
economic assistance, agreement with—	
Iceland.....	15210
Iraq, termination agreement.....	17119
Turkey.....	17105
Yemen.....	17117
economic assistance programs and administration, interim report.....	13550
economic cooperation, technical assistance agreement with Yugoslavia.....	5422-23
economic, technical, and related assistance, agreement with Tunisia.....	2153
financial aid, agreement with Ecuador.....	15213
food for economic development, etc. U.S. policy, hearings.....	12535
ICA and U.S. voluntary agencies overseas programs.....	14784
ICA health summary.....	2686, 11226
industrial activities bulletin.....	2687, 11227
military assistance program organization and administration, 2d interim report—	
departmental edition.....	10557
document edition.....	9809
mutual security act of 1959—	
hearings.....	10040-41
law.....	11995
minority report.....	9834
reports.....	9834, 9844, 9994, 12193
views.....	9834, 9994
mutual security appropriations, 1960—	
hearings.....	12274, 16188
law.....	15747
proposal.....	9810
reports.....	12208, 15930-931, 16167
mutual security program—	
Afghanistan, fact sheet.....	4075
continuation, message from the President.....	4469
development and implementation review—	
hearings.....	3322, 4651
report.....	4650
draft legislation—	
hearings.....	7465, 8733
hearings, index.....	8733
Ethiopia, fact sheet.....	8233
Iran, fact sheet.....	9508
Laos, fact sheet.....	13607
Pakistan, fact sheet.....	13612
preliminary conclusions of study committee—	
departmental edition.....	6899
document edition.....	5943

	Entry
Foreign aid—Continued	
mutual security program—con.	
reports, semiannual—	
departmental editions.....	3624, 17856
document editions.....	3274, 17232A
report by Citizens Foreign Aid Committee and comments supplied by Departments of State, etc.....	7466
summary presentation, 1960.....	6328
Thailand, fact sheet.....	1193
Tunisia, fact sheet.....	4076, 6953
NATO's first decade, review, economic, cultural, and scientific cooperation.....	6950
operations report.....	2688, 11228
postwar economic assistance to Germany, settlement of U.S. claim, agreement.....	9511
program, criticisms, etc., compilation.....	8732
programs under mutual security act, investigation authorization, report.....	3300
purposes, scope, administration, etc—	
study, print as document, report.....	8629
study, text.....	8541
relief supplies and packages, agreement with Ghana.....	8251
right and wrong thinking about American foreign assistance (address).....	8230
roster of agencies interested in technical cooperation abroad.....	7876
Sino-Soviet economic threat to newly developed free nations.....	6946
small business participation, hearings.....	14356
south and southeast Asia, report of Colombo Plan Consultative Committee.....	4074
technical assistance agreement with Malaya.....	13622
technical cooperation agreement with—	
Great Britain for British Guiana.....	17859
Mexico.....	17864
technical cooperation contracts of voluntary and nonprofit agencies with ICA, status reports.....	544, 16490
technical cooperation, dramatic story of helping others to help themselves.....	10591
technical cooperation joint fund programs, agreement with Israel.....	5426
technical cooperation principles (address).....	4067
United States program aid operations—	
hearings.....	12294
report.....	9851
working with people, examples of U.S. technical assistance.....	4068
see also names of countries.	
Foreign Aid, Select Committee on, House, records, 1947-48, preliminary inventories.....	9390
Foreign Broadcast Intelligence Service, records, preliminary inventory.....	13456
Foreign claims, see Claims.	
Foreign Claims Settlement Commission, report, semiannual.....	4870
Foreign commerce, see Commerce.	
Foreign Commerce Bureau :	
publications, checklist.....	3527, 12703
releases.....	2647, 11186
Foreign consular offices in U.S.....	13597

# INDEX, 1959

	Entry		Entry
Foreign countries:		Foreign Relations Committee, Senate—Continued	
dignitaries visiting U.S., Senate		reports.....	3347-48,
Members assistance in responsibilities in reception, reports.....	3348, 3361	5991, 6000-1, 6021, 6037-38,	
for industry abroad.....	11764	7549-50, 7556, 7572, 8809, 9994,	
Government civilians, standardized regulations.....	2955, 11503	12346, 12364-366, 12425, 12435,	
ICA host country institutions of industrial technical cooperation program.....	12785	12476, 12484-485, 12490, 12513,	
international cultural relations of U.S., policies and programs.....	13610	14436, 14469-470, 14535, 16085-86, 16102, 16130, 16166, 16168, 16173.	
pocket guides, vacation planning, Government publications, list.....	6903	views.....	9994, 16166
ports, code classification by geographic trade area, etc.....	3189	Foreign Service:	
publications relating to, price list.....	13556	act of 1946, amend—	
statistical publications, accession list.....	2355, 10886	hearings.....	10036, 12534
see also Foreign agents—Foreign aid—also subject involved.		report.....	14535
Foreign crops and markets (periodical).....	2641, 11108	annuities, adjust, hearings.....	12534
monthly summaries.....	2642, 11181	buildings act of 1926, amend, hearings.....	14336
Foreign currencies, see Money.		career opportunities.....	4066
Foreign decorations, see Decorations of honor.		department and foreign service series.....	4066,
Foreign economic relations of R.P.R., Rumania.....	12850	6942-43, 10590, 13596-597,	17085
Foreign Excess Property Officer, import permits, investigation, hearings.....	3328, 15946	list.....	2950, 11497
Foreign exchange:		officers—	
controls—		appointments, hearing.....	6058
Australia.....	3536	retired, views on U.S. foreign policy.....	10042
Austria.....	4882	personnel—	
Belgian Congo and Ruanda-Urundi.....	12717	foreign language proficiency standards for training establish, hearing.....	10036
Brazil.....	12714	recruitment and training, hearing.....	10036
Cameroun.....	14705	posts, records, National Archives special list.....	5309
Colombia.....	7800	retired officers, increase annuities, report.....	16102
Ecuador.....	7799	visa work, supplement.....	10590
Federation of Malaya.....	4890	Foreign Service Academy, establish, hearings.....	12534
Greece.....	4878	Foreign Service Institute, School of Foreign Affairs, School of Languages, catalog and general information.....	6943
Iran.....	1657	Foreign trade, see Commerce—also names or classes of commodities—also names of countries and places.	
Jordan.....	463	Foreign-trade zones, laws, regulations, etc.....	3550
Korea.....	9077	Foreign-Trade Zones Board, report, 1958.....	3549
Netherlands.....	4879	Forest conservation, see Forests and forestry.	
New Zealand.....	14700	Forest experiment stations, see names of Stations.	
Nicaragua.....	16421	Forest fires:	
Paraguay.....	12712	Alaska, ecological effects (re-marks).....	16672
Singapore.....	9076	control—	
Switzerland and Liechtenstein.....	12716	fire control notes, quarterly.....	2649,
Union of South Africa.....	10152	fire fuels in red pine plantations.....	11188
see also Money.		fuel-moisture-indicator sticks, effect of weathering on accuracy.....	3565
Foreign government purchasing agencies.....	3534	protecting forests from fire.....	17474
Foreign language specialists, examination announcement.....	4390, 9736	retardants, tests.....	1296
Foreign languages, see Language and languages.		southern California, report.....	473
Foreign ministers meeting, Geneva, May-Aug. 1959.....	17095	southern forests, system for drought estimation.....	4655
Foreign Operations Administration, field staff, foreign service list.....	11497	TBM aerial tanker testing in Southeast.....	6272
Foreign policy, see International relations.		effects of wildfire on mortality of young ponderosa pine trees.....	14737
Foreign relations, see International relations.		effect on decay of southern bottom-land hardwoods.....	12734
Foreign Relations Committee, Senate:		enemies of forests.....	3082
additional personnel, report.....	3359	report, 1958.....	3559
calendar.....	2470, 11003	slash burning influence.....	12740
hearings, etc.....	3386-87, 4740, 6055-59, 7610-16, 8888-89, 10035-42, 12534-537, 14560, 16197-204.	statistics, 1958.....	3578
investigations and studies, foreign policy, etc., authorization, reports.....	3347, 3360	Tennessee Valley, 1934-58.....	10168
legislative history, 85th Congress.....	3339	weather in western Oregon and western Washington, 1958.....	10616
		wind patterns, local surveys.....	1691

# JANUARY-DECEMBER

	Entry		Entry
Forest lands, <i>see</i> Forests and Forestry—National forests.		Forest Service—Continued	
Forest nurseries:		programs, cooperation with State agencies, 1957.....	14739
diseases of southern pines.....	4898	report, 1957.....	3580
forest tree, in United States, 1958, list.....	6276	safety story, 1958.....	10176
Forest pest leaflets.....	4897-4900, 6241, 7812-14, 12727, 14713, 16429-430	technical equipment reports.....	7523, 7838-39
Forest pest observer.....	11189	Foresters, examination announcement.....	5723, 7247
Forest plantations, <i>see</i> Trees.		Forestry, <i>see</i> Forests and forestry.	
Forest planting:		Forestry Relations Division, TVA annual report, 1959.....	17135
and windbarrier planting, report, 1958.....	6276	Fish and Game Branch, report, 1959.....	15225
Douglas fir trees, test planting on steep south slope.....	6266	Forests and forestry:	
field tree survival, effect of stock treatment, tree planters' notes.....	16452	American woods.....	14710
Lake States, seed production areas, establishment and management, guidelines.....	14724	aviation applications, research and development, conference report.....	13717
longleaf pine, direct-seeding, guidelines.....	17480	Bartlett Experimental Forest, research activities, etc.....	17453
northern Wisconsin, direct seeding of balsam fir.....	14723	careers in forestry.....	3071
pine in Carolina sandhills.....	3583	Caribbean forester.....	2648, 11187
pines, preparing Florida Gulf Coast sandhills.....	498	cattle grazing in longleaf pine stands of south Mississippi.....	3584
ponderosa pine direct-seeding in Black Hills, factors affecting.....	1696	China, industry, selected translations and extracts.....	5007, 6356
sandwich planting and mechanical planting holed digger, tests in California.....	16443	code of Federal regulations.....	6155
strip-mine plantations in western Kentucky, tree species recommended.....	9092	community forests for rural people.....	9606
tree planters' notes.....	6276, 12757, 16452	Cumberland Plateau, developments program.....	4108
Forest products:		disease and insect conditions in Northeast, 1958.....	12746
carload waybill statistics, 1957.....	3627, 6333	disease and insect situation, Lake States, 1958.....	7825
carload waybill statistics, 1958.....	12792, 17509	economic improvement through forest utilization and development, Cumberland and Morgan counties, Tenn.....	8257
fungus defects, publications, list.....	10171	economics, bibliography for United States and Canada, 1953-54.....	4198
industry notes.....	15227-228	enemies of forests.....	3559
industry, small independent firm's role, report.....	7574	Florida, preplanting site preparation required for sandhills.....	14733
marketing, wood use by manufacturing firms in Minneapolis and St. Paul.....	17460	forest inventory statistics—	
prices in Ohio, 1957.....	480	Beech River watershed.....	5444
prices in Ohio, 1958.....	9093	Calloway County, Ky.....	1213
research programs to expand markets, etc., report.....	15842	Cocke County, Tenn.....	8258
Forest Products Laboratory:		Dade County, Ga.....	5443
aircraft components, publications, list.....	9103	Decatur County, Tenn.....	10618
dimensional stabilization seminar on wood, report.....	9100	Hawkins County, Tenn.....	13643
dynamic compression testing equipment for testing cushioning materials.....	488	Henderson County, Tenn.....	17880
publications, list.....	4901, 14714	Marshall County, Ky.....	10617
reports.....	482-488, 1677-85, 3561-63, 4902-11, 6242-54, 7815-19, 9095-9100, 10169-175, 12728-730, 14715-1718, 16431-433, 17454-457	Melgs County, Tenn.....	17137
research on chemical utilization of wood.....	6251	Rhea County, Tenn.....	17138
technical notes.....	1686, 6255, 9101-2	Towns County, Ga.....	9528
Forest research, <i>see</i> Forests and forestry.		Yellow Creek Watershed.....	17136
Forest resources, <i>see</i> Forests and forestry.		forest resource report.....	6256
Forest Service:		forest survey release—	
air operations meeting, Arcadia, Calif., Mar. 1959.....	12723	California Station.....	3553, 6237
appropriations, 1960—		Central States Station.....	7808
hearings.....	5911, 8883	Southeastern Station.....	1698, 14736
law.....	11961	Southern Station.....	497, 16449
reports.....	5876, 8713, 8844	forest survey report, Pacific Northwest Station.....	491, 3576
beech utilization series.....	1671, 6236, 7805	forestry bulletins, Tennessee Valley Authority.....	1213, 5443-44, 8258, 9528, 10617-618, 13643-644, 17136-138, 17880
field offices, listing.....	3560	forestry programs administration, cooperation of States and Forest Service.....	14739
films available for educational purposes, list.....	4912	growth and mortality estimates, Malheur National Forest Oreg.....	9105
		hickory task force report, Southeastern Station.....	6270
		Hungary, general information.....	729, 1832, 6434, 10277, 12991, 13100, 13168, 14883, 17582
		indicators of land classes in air-photo interpretation of Alaska interior.....	1669



# INDEX, 1959

Forests and forestry—Continued	Entry
insects—	
aerial spraying to eliminate, re-	
suits.....	832
Arizona, New Mexico, and West	
Texas.....	3582
central Rocky Mountains condi-	
tions, 1958.....	7836
conditions, 1958, status report.....	9108
forest pest observer.....	11189
intermountain and northern	
Rocky Mountain States condi-	
tions, 1958.....	7820
Lake States, insect and diseases	
situation, 1958.....	7825
Northeast, conditions, 1958.....	12746
Pacific Northwest conditions.....	4896
Southeast, conditions, 1958.....	12726
Iowa, resources.....	9107
laws relating to, compilation.....	7808
management.....	285
aerial spraying for control of	
forest pests.....	6277
cutting practice demonstrations	
in upland hardwoods.....	14712
programs and improved farming	
systems.....	499
sample sustained-yield plan.....	6269
small forest in East Texas.....	3585
timber and deer in balanced pro-	
gram, pine region of New	
Jersey.....	1689
Michigan—	
commercial forest land by forest	
type.....	3567
heavy thinning increases tree size	
and yield in northern hardwood	
stands.....	14726
red pine and oak stands, soil	
moisture depletion variations.....	14730
Upper Peninsula, sugar maple	
and yellow birch seed dispersal	
from mature hardwoods.....	14727
Minnesota, snow accumulation and	
melt, management implications.....	7824
misc. pub. series, Intermountain	
Station.....	7820, 14719-721, 16435
miscellaneous papers—	
California Station, 1674, 6238, 9088-90	
Pacific Southwest Station.....	12747
14735, 17476-477	
miscellaneous releases, Central	
States Station.....	3555-56
Mississippi—	
cattle grazing in longleaf pine	
stands.....	3584
general information.....	497
highlights of survey.....	499
natural resources conservation,	
highlights in history.....	6320
occasional paper, Southern Sta-	
tion.....	498, 1700, 3584-85,
6273-74, 7837, 10183, 14738,	
16450, 17480	
Oregon, southwestern, forest land	
problems.....	16428
point-sampling and live-sampling,	
probability theory, geometric	
implications, synthesis.....	1700
protection from fire.....	1296
publication, price list.....	6906
regeneration of sand pine on Ocala	
National Forest.....	13739
research highlights, Intermountain	
Forest & Range Experiment	
Station.....	6258
research notes—	
California Station.....	473-474, 1672-73,
3552, 10164	
Intermountain Station.....	6259,
7821-23, 12732-737, 16436	
Northeastern Station.....	3575,
7832, 17467-473	

Forests and forestry—Continued	Entry
research notes—continued	
Pacific Northwest Station.....	492,
1690-91, 6265-66, 9105-6,	
10177-178, 17474-475.	
Pacific Southwest Station.....	16441-445
Rocky Mountain Station.....	1696,
3581, 12749-752	
Southeastern Station.....	496, 10180-182,
12753-754, 17479	
research papers—	
Intermountain Station.....	12738, 14722
Pacific Northwest Station.....	493,
3577-79, 7834, 16439	
schools in U.S., list.....	12731
silvical characteristics—	
Atlantic white-cedar.....	12744
bigleaf maple.....	6267
black locust.....	3555
Douglas fir.....	1694
hackberry.....	3556
loblolly pine.....	6271
mountain hemlock.....	4914
noble fir.....	494
Oregon white oak.....	4913
Pacific madrone.....	495
pitch pine.....	12745
Port Orford cedar.....	1692
Sitka spruce.....	1693
sweet birch.....	6264
western juniper.....	4915
white fir.....	1675
silvical series, Pacific Northwest	
Station.....	494-495, 1692-94,
4913-15, 6267	
silvics—	
grand fir.....	14721
lodgepole pine.....	14719
western redcedar.....	14720
slash burning influence on regenera-	
tion, plant cover and fire	
hazard.....	3578
soil compaction on forest lands.....	3074
southern forestry notes, Southern	
Station.....	499-500, 3586,
6275, 10184, 16451	
Soviet abstracts.....	3783, 5091, 5093,
6552, 13066, 13072, 13117,	
13208-209, 13223, 14871, 14906	
station notes, Central States Sta-	
tion.....	475-479, 1676, 7809-10,
9091, 10165-167, 12724-725,	
14711	
station papers—	
Alaska Research Center.....	1669
Lake States Station.....	3565, 7824-26,
14723-724, 17460	
Northeastern Station.....	489-490,
1688-89, 6262-64, 7833, 12742-	
746, 14734, 16439.	
Rocky Mountain Station.....	1697,
3582, 7835-36, 16447-448, 17478	
Southeastern Station.....	1699, 3583,
6271-72, 9107, 14737	
statistics—	
Baker County, Ore.....	3576
Malheur County, Ore.....	3576
summary, announcement.....	3586
Wasco County, Ore.....	491
Susanville Research Center, guide.....	16434
technical notes—	
Alaska Forest Research Center.....	3551
Lakes States Station.....	3566-73,
6260-61, 7827-31, 14725-733,	
17461-466	
technical papers—	
California Station.....	1675,
3554, 6239, 7806-7	
Central States Station.....	480, 3557,
7811, 9092-93, 14712, 16427	
Pacific Southwest Station.....	12748,
16446	
Tennessee Valley—	
county commercial areas.....	6972



	Entry		Entry
Forests and forestry—Continued		Fort Valley Experimental Forest,	
Tennessee Valley—Continued		half century of research, 1908-1958	1697
resource and industrial develop-		Fort Walton Beach, Fla.:	
ment	10615	land conveyance from Eglin Air	
tree seed crop poor in Lake States,		Force Base—	
1958	14731	law	14049
TVA activities, 1958-59	17135	reports	12163, 14491
Vietnam forests and problems of		Fort Washington, Md., general in-	
forestry in North Vietnam	10335	formation	9415
watershed management problems in		Fort Worth, Tex.:	
northern Rocky Mountain re-		electric facilities of area, map	16340
gion	12738	stockyards, proposed facilities, op-	
Wisconsin—		erations, services, 1955	4177
commercial forest land in coun-		Forty years of Soviet sanitary bac-	
ties by forest type	14728	teriology	7962
forest area in counties	7827	Forums (discussion and debate):	
mixed oak farm woodlands, mea-		action toward Asian-American co-	
sures to improve	14725	operation and understanding,	
see also Forest fires—		conference summary	5416
Forest nurseries—Forest		administrative process and ethical	
planting—Forest products—		questions, panel discussions	1552
Land—National forests—Site		Communist China, philosophy and	
indexes—Swamplands—Tim-		logic, symposia to develop free	
ber—Trees—Volume and yield		discussion and promote inten-	
tables—Wood lots—also		sive study	14812
names of forests.		Learn to Earn Opportunities Forum	
Forfeiture of veterans benefits, re-		for Mature Women, report	9558
port	14449	St. Petersburg Earning Opportu-	
Forged checks, see Checks.		nities Forum, report	9559
Forgings, steel, facts for industry	2371,	Forwarders, see Freight forwarders.	
	10902	Fosmoe, Dean E., relief	4480
see also names of metals, etc.,		Fossils:	
forged.		Cenozoic echinoids of eastern U.S.	10193
Fork lift trucks, see Motortrucks.		Glacier National Park, origin and	
Formosa:		history	6290
economic developments, 1958	12708	micropaleontologic study of	
exports and imports, licensing and		Grandstand area test well, north-	
exchange controls	4883	ern Alaska	3604
investment in, information for		Meade and Kaolak test wells,	
businessmen	9065	northern Alaska	1714
multiple cropping index	609	Square Lake and Wolf Creek area	
mutual security program, develop-		test wells, northern Alaska	6292
ment and implementation re-		Titaluk and Knifeblade areas	
view—		test wells, northern Alaska	6291
hearings	3322	paleontology of Canal Zone and	
report	4650	adjoining parts of Panama	14754
sailing directions	17500	see also Birds.	
Forms, blanks, etc.:		Foster, Jessie L., relief	7531,
Improvement workshop, Interagency			8606, 11911
Records Administration Con-		Foster-home care, see Child placing.	
ference	13454	Foundations, see Charitable institu-	
management—		tions—also names of founda-	
Air Force manual	122, 5566	tions.	
guide	1131	Foundations (construction):	
manifold business forms industry,		soils, bearing capacity, engineering	
trade practice rules	10120	manual	380
see also names of departments, etc.,		Foundations of air power (textbook)	4261
issuing or using forms—also		Foundries:	
subjects.		characteristics of Mn-V-Mo age-	
Formulas pertinent to calculation of		hardening austenitic steel	10537
flow-field effects at supersonic		cleaners, occupational diseases of	
speeds due to wing thickness	8078	nervous system, data on clinical	
Fort Belknap Reservation, improve		symptoms, pathogenesis	
land tenure patterns, report	14455	and prevention, USSR study	12954
Fort Berthold Reservation, tribal		copper-base products, facts for in-	
lands, members to acquire, re-		dustry	2372, 7208, 10903
port	16110	iron and steel, facts for industry	2371,
Fort Jefferson National Monument:			10902, 11810
memorial tablet to Samuel A. Mudd,		production—	
erection—		comparative economics of smelt-	
law	15668	ing open-hearth and electric	
reports	14269, 16176	furnace steel, USSR study	3686
Fort McDermitt Paiute and Shoshone		heavy machine building industry,	
Tribe, see Paiute Indians—		USSR study	3642
Shoshone Indians.		4-H clubs:	
Fort Myers, Fla.:		broader horizons for senior pro-	
relief, additional payment—		grams, guide for extension	
law	14035	workers	9616
reports	8850, 14227	building a better America through	
Fort Peck Dam, Missouri River,		4-H clubs	5528
Mont., modifications of control		camping, manual for leaders	15327
shaft, tunnel 4	16272	first-year members, meeting basic	
Fort Smith, Ark., Fort Smith Muncip-		needs	9615
al Airport terminal forecast-			
ing, reference manual	4125		

# INDEX, 1959

	Entry		Entry
4-H clubs—Continued		Fraud—Continued	
heart H spiritual emphasis, guide for leaders	13737	organized fraudulent schemes operating in U.S., investigation, hearings	10045
informative publications for and about	17823	Fraud and mallability cases releases	2882, 11421
leaders service to Nation (talk)	61		16497
leaders training program, strengthening	13738	Frazer, Pa., railroad accident	
national center formal opening (remarks)	11650	Free energy, crystalline cadmium and lead metasilicates, data	8049
parents cooperation	9614	Free enterprise, see <i>Laisses faire</i> .	
taking look at ourselves and 4-H club work (address)	3454	Free flight investigation of comparative zero-lift rolling effectiveness of leading-edge and trailing-edge air-jet spoiler on unswept wing	17733
work molds America's youth to bring out their best (remarks)	11648	Free-flight performance of rocket-boosted, air-launched 16-inch-diameter ram-jet engine at Mach numbers up to 2.20	3887
working together in Nation	109	Free oscillations of electron plasma in magnetic field	3153
youth of America are trustees of posterity (address)	11616	Free radicals:	
Fourth-class mail matter, see Parcel post.		formation during radiolysis of hydrocarbons at temperature of 77° K, USSR studies	3726
4th conference on analysis of precious metals (Sverdlovsk, May 20-23, 1957)	1776	radiation induced, detection by paramagnetic resonance	5393
Fowl ticks, how to control	3061	stabilization, trapped radicals at low temperatures, symposium	13459
FPC, see Federal Power Commission.		Free speech, see Liberty of speech.	
FPC R series	404, 16328	Freedmen's Hospital School of Nursing, announcement, 1959-60	17827
FPCS series	4819, 14631, 17407	Freedom, see Liberty.	
FPL, see Forest Products Laboratory.		Freedom Academy, establish, hearings	14571
Fractional factorial experiment designs for factors at 3 levels	8094	Freedom Commission, create, hearings	14571
Fracture, see Brittle fracture.		Freedom Joint Committee, establish, hearings	14571
Fracture of metals, see Sheet metal.		Freedom of the press, see Liberty of the press.	
Fractures, healing during various stages of radiation disease, USSR	1768	Freedom of religion, see Religious liberty.	
Frames, structural roof, for pole-frame building, performance under test load	1680	Freedom of speech, see Liberty of speech.	
France:		Freeland, Mich., aircraft accident	7228
archives of Allied High Commission for Germany Combined Travel Board, protocol	8247	Freeman, Joyce L., relief	9949, 13964, 14118
atomic energy cooperation for civil uses, agreement	17868	Freeport, Ill., railroad accident	
atomic energy, cooperation for mutual defense purposes, agreement		Freeport, Tex., port	14602
hearings	12026	Freeport Sulphur Co., nickel-cobalt contracts with GSA, investigation, hearings	12291
reports	12159, 12170, 12433	Freer Gallery of Art, occasional papers	16454
text	15216	Freezing, supercooled aqueous aerosols, comparison of various equations	7920
economic developments, 1958	7771	see also names of commodities, etc., frozen.	
establishing business	14690	Freight:	
foreign trade, 1956-57	3547	carload waybill statistics, quarterly comparisons	11232
import tariff system	9079	carload waybill statistics, 1956, tons of revenue originated and terminated by States and by commodity class	3625
licensing of industrial property rights	14704	carload waybill statistics, 1957—	
mutual defense offshore procurement program, transfer of special tools, agreement	8235	agricultural products	6332, 6335
surplus agricultural commodities, agreement	10598	all commodities	4962
television aspects	5929	animals and products	3626, 4961
Frankford Arsenal:		forest products	3627, 6333
memorandum report MR series	5365, 17005	manufactures, etc.	7879
reports	5366, 6880, 8163	mileage distribution by type of car	7878
Franking privilege, see Penalty mail.		mine products	4963, 6334
Franklin, Benjamin, 253rd anniversary of birth, observance, statement	2103	territorial distribution by type of car	9147
Franklin D. Roosevelt Library, general information	8092	tons of revenue originated and terminated by States and commodity class	7880
Franklin Delano Roosevelt Memorial Commission, appropriation, 1960, proposal	15993	weight distribution of carloads	9148
Fraser Experimental Forest, cooperative snow investigations, 1946-53	1159	carload waybill statistics, 1958—	
Fraud:		agricultural products	12791, 17508
and mallability cases, releases	2882, 11421	all commodities	10204
confidence racket, exploitation of minors hearings	7638		

	Entry		Entry
<b>Freight—Continued</b>		<b>Friendship, treaty with Muscat and</b>	
Carload waybill statistics, 1958—con.		Oman, text.....	12343
animals and products.....	12790, 16493	Frills must be complete.....	6275
forest products.....	12792, 17509	From college to work, job experience	
mines products.....	12793, 17510	of women college graduates,	
commodity statistics—		classes of '55, '56, '57.....	9554
annual, 1957, errata.....	6336	Frontier Airlines, Inc., accident.....	11819
motor carriers, 1957.....	1736	<b>Frost:</b>	
quarterly.....	2700, 11239	damage to California fruits and	
handling by motor carriers, cost.....	16501	vegetables.....	3022
rail revenue contributions, distribu-		investigations, coldroom studies on	
tion.....	14788	action in soils.....	3427
revenue and wholesale value at desti-		permafrost—	
nation of commodities, anal-		and soils in Alaska, evaluation.....	7677
ysis, 1956.....	1735	Arctic regions, summary of	
<b>Freight cars:</b>		talks.....	9633
adequate supply, insure—		periodic heat flow in stratified	
hearings.....	12551, 14342	medium.....	16462
report.....	12400	structures surrounding Quaternary	
construction in USSR, unsolved		deposits, USSR studies.....	10265
problems.....	10254	<b>Frost Effects Laboratory, see Arctic</b>	
industry, outlook for 1959 and re-		<b>Construction and Frost Effects</b>	
view of 1958.....	1432	<b>Laboratory.</b>	
per diem charges to alleviate		<b>Frostbites, localized, treatment by</b>	
shortages, hearings.....	14342	means of perforated fibrin	
turnover, calculating coefficient,		films, USSR study.....	17643
Poland.....	3722	<b>Frozen foods:</b>	
<b>Freight forwarders:</b>		dehydrofreezing, innovation in dis-	
Alaska, ICC permits, grant grand-		tribution (paper).....	5490
father rights.....	9954	distribution, wholesale, factors af-	
carload waybill statistics, 1957.....	6331, 7879	fecting costs.....	8321
foreign, licensing by Federal Mari-		fine quality preservation research.....	15290
time Board.....	12252	merchandizing by locker and freezer	
overseas shipments, clarify prac-		provisioning plants.....	7055
tices of governmental agen-		wholesale, mechanized order proc-	
cies—		essing.....	8282
law.....	15724	see also Cold storage—also names	
reports.....	12247, 14512, 16502	or classes of foods frozen.	
revenues, expenses, and statistics.....	2713, 11252	<b>Frozen ground, science or geocryology,</b>	
transport statistics, 1958.....	16502	Soviet content and object.....	17636
<b>Freight rates:</b>		<b>Fruit:</b>	
cost of transportation by class 1		auctions, changing role.....	8324
and 2 motor common carrier—		availability in retail food stores.....	9575
East-South territory, 1957.....	3628	bargaining cooperatives, develop-	
oil field equipment and supplies.....	14787	ment and possibilities.....	7686
South-Central territory, 1957.....	3629	California, frost damage.....	3022
Southern region, 1957.....	3630	canned market in public schools.....	11568
dual-rate contract agreements, op-		carlot and truck unloads, U.S. and	
eration etc., hearings.....	7474, 17337	Canadian cities, 1958.....	4136
12302,		carlot unloads.....	2231, 10685
railroad carload traffic, indexes,		consumer purchases—	
1949-57.....	16494	family characteristics.....	11575
recent developments.....	4139	monthly report.....	2195, 10652
<b>Freight trains, see Railroads.</b>		quarterly report.....	2196, 10653
<b>Frequencies, tracking course, com-</b>		cooler, forced air, farm building	
parison of zero-order and 4th-		plan.....	17204
order aided compensatory sys-		culture, etc., publications, price	
tems as function.....	6859	list.....	9462
see also Radio frequencies.		deciduous—	
<b>Frequency filters, see Radio frequency</b>		canned, industries, Australia and	
<b>filters.</b>		South Africa.....	17432
<b>Friant Dam provides water for Cali-</b>		equipment used by growers in	
<b>fornia acres general informa-</b>		handling bulk boxes.....	44
<b>tion.</b>	4040	foreign agriculture circulars.....	2643, 11182
<b>Friction:</b>		industry in Chile.....	445
and heat transfer measurements		industry of Italy.....	9059
with variable properties for		tree, <i>Verticillium hadromycosis</i> .....	7043
airflow normal to finned and		dried, foreign agriculture circulars.....	2643, 11182
unfinned tube banks.....	1081	dried powders, full flavored, prepa-	
coefficients, measurements for hel-		ration from fruit juices.....	3043
ium flowing in tube at surface		foreign trade prospects.....	3523
temperatures up to 5900° R.....	17755	fresh—	
resistance over bed, effect on propa-		carlot shipments by States, etc.,	
gation of tidal waves into		1958.....	7006
channels of gradually varying		market news, weekly summary.....	2243, 10697
cross-section.....	17382	shipments by commodities, etc.,	
tire-to-surface, under wet conditions		1958.....	7005
in braking on runways.....	6764	transportation and marketing,	
torque testing for instrument ball-		effect of heavier loading of rail	
bearings, military standard.....	10062	shipments (address).....	7013
valve, etc., effect on power control		unloads, Washington, D.C., 1958.....	5506
system quality, errata.....	948		
see also Internal friction—Skin			
friction (aircraft)			

# INDEX, 1959

Fruit—Continued	Entry	Fuel—Continued	Entry
frozen—		Jet, JP-4—continued	
agricultural exemption effects		coking in electrically heated	
upon interstate transportation	5549	tubes	1011
family purchases	7057	dispersion by atmospheric tur-	
under agricultural exemption		bulence, evaporation, and vary-	
(paper)	32	ing rates of fall of fuel drop-	
fruit situation	2205, 10662	plets	16906
home garden—		droplets, free fall and evapora-	
central southwestern States	8316	tion in quiet atmosphere	10870
Northern Great Plains, Northern		Jet, service station deliveries, Fed-	
Mountain and Intermountain		eral supply schedule	419
States	11627	liquid, Federal test method stand-	
Pacific Coast States and Arizona	5536	ard	6177
imports under quarantine, 1957-58	6211	mineral-fuels industries review,	
irradiation, European interest	8393	1957, minerals yearbook chap-	
loading out in wholesale ware-		ter	3877
houses	4178	minerals yearbook, 1957—	
market news—		departmental edition	5201
weekly arrival summary	2244	document edition	4441
weekly shipment summary	2245	nuclear, major factors affecting	
marketing margins	5482	burn-up of elements	3166
noncitrus, production, use, value,		packaged—	
by States, 1957-58	9582, 13688	minerals yearbook chapter	13309
outlook for 1959 (statement)	1269	plants in United States, produc-	
paper-packaged, displayed on ice,		tion 1957	924
protection	1315	packaged and briquets, production,	
prepackaging, new breakthroughs		etc., 1958	9339
(talk)	7026	Poland, utilization for power gen-	
processed, plants approved to pack		eration and technical pur-	
under inspection, list	13676	poses	686
production, Soviet abstracts	740	prices and price indexes, 1957	893
pruning hardy plants	3054	propane, performance of annular	
trees, why they fail to bear fruit	1807	turbojet combustor having re-	
wholesale, auction, f.o.b. prices,		duced pressure losses	2028
1958	4193	properties, effect on linear tempera-	
see also Citrus fruit—Fruit juices—		tures in single tubular turbo-	
also names of fruits.		jet combustor	5248
Fruit flies, see Flies.		publications, price list	15163
Fruit juices:		retail prices and indexes	2744, 11281
availability in retail food stores	9575	rocket—	
berry concentrates, preparation	1281	hydrazine-nitrogen tetroxide and	
canned and frozen, consumer pur-		hydrazine-chlorine trifluoride	
chases—		compared	17754
monthly report	2195, 10652	ignition lag of self-igniting, nitric	
quarterly report	2196, 10653	acid propellants, NACA re-	
canned market in public schools	11568	search program summary	1018
citrus, Florida industry, economic		liquid hydrogen with liquid oxy-	
characteristics	5544	gen as propellant	13435
consumer purchases, family char-		performance of propellants, theo-	
acteristics	11575	retical	16918
see also names of fruit juices.		sold, Polish industry, present state	
Fruit-piercing moths of genus Gono-		and development prospects	683
donta Hübner	15330	statistics of railroads	2702, 11241
Fruit, Vegetable, Soil and Water		used by major industry group, and	
Laboratory, dedication (ad-		by State, 1954-57 statistics	11772
dress)	40	see also Briquets—Fuel oil—Motor	
Fruits, see Fruit.		fuel—Reactor fuels—also	
FTC, see Federal Trade Commission.		names of fuels.	
Fuel:		Fuel briquets, see Briquets.	
chemistry and technology of fuels		Fuel elements, see Reactor fuel ele-	
and oils (USSR periodical), ab-		ments	
stracts	8427, 10788	Fuel Elements Conference, papers	15425
consumption for electric energy	2548, 11086	Fuel oil:	
Federal supply schedule	419, 14658	bunker oil, foreign trade reports	2376, 10907
gaseous, and raw materials in Po-		liquid fuels, injection and combus-	
land, problems	684	tion	15362
high energy for ramjet engines,		Mines Bureau synthetic liquid fuels	
theoretical combustion perfor-		program, 1944-55	16727
formance	5216	sales in 1958	15023
industries, employment and inju-		service-station deliveries, Federal	
ries, minerals yearbook chap-		supply schedule	419
ter	16691	synthetic liquid fuels from hydro-	
jet, JP-4—		genation of carbon monoxide	9334
and liquid oxygen, high-per-		Fuel plates, see Reactor fuel plates.	
formance 250-pound-thrust		Fuel systems:	
rocket engine utilizing coaxial-		turbine-inlet temperature signifi-	
flow injection	17753	cance in high-energy turbo-	
and liquid-oxygen rocket engine,		drive applications	5260
experimental altitude perform-		turbojet engines with variable-area	
ance	9382	exhaust nozzle control limits	
		effect on steady-state and	
		transient performance	964



	Entry		Entry
Fuel systems—Continued		Furniture—Continued	
turbopump-fed liquid-propellant		prices and price indexes, 1958.....	900
rocket, analysis of flow-system		retail furniture report.....	2589, 11126
starting dynamics.....	8085	see also Office furniture and equip-	
Fueller, Marguerite, relief.....	9967,	ment.	
	13985, 14150	Furtado, Lawrence M., relief.....	12099,
Fuels, see Fuel—Reactor fuels.			13990, 14423
Fuels Policy Joint Committee, see National Fuels Policy Joint Committee.		Furunculosis, see Boils.	
Fukata, Kim, and child, relief.....	8779,	Fuselage:	
	13917, 14120	boundary layer, internal perform-	
Fukien Province, China, plan for		ance at Mach numbers to 2.0 of	
1959.....	17585	2 immersed auxiliary inlets.....	6702
Fuller's earth, production, etc.,		cavity and partially submerged	
1958.....	13349	store, zero lift drag.....	6748
Fulton County, Ga., soil survey.....	1178	fences, effect on angle-on-attack	
Fumigation, soil device for sealing		supersonic performance of top-	
furrows.....	15291	inlet-fuselage configuration.....	991
Functional arrangement of airman		4-percent, thick, unswept-wing-fuse-	
career fields and skill levels.....	5565	lage, transonic aerodynamic	
Functions (mathematics), see Mathe-		and loads characteristics.....	13411
matics.		half-submerged and pylon-mounted	
Funds, see Money—Public funds—Re-		Douglas aircraft stores with	
volving funds—also names of		and without cavities between	
departments, etc., for which		Mach numbers 0.9 and 1.8,	
funds are used—also subject		effect on drag of longitudinal	
for which funds are used.		positioning.....	17727
Fungi, chemical activity and tasks of		junction with sweptback wing in	
utilizing them in national		combination with transonic	
economy, USSR study.....	12983	area rule, investigation at lift-	
see also names of fungi, or fungus		ing conditions of streamline	
diseases.		contouring.....	16831
Fungicides:		parabolic, drag of flat- and vee-	
amend act to include nematocides,		windshield canopies, flight in-	
etc.—		vestigation.....	1095
hearing.....	12270	supersonic-aircraft, pressure-dist-	
law.....	14002	tribution tests conducted in Lang-	
reports.....	9854, 12438	ley 4- by 4-foot supersonic	
effects on fish and wildlife, con-		tunnel at Mach number 1.40.....	10475
tinue studies—		sweptback-wing root juncture for	
hearings.....	317	reducing drag at transonic	
effects on fish and wildlife, Interior		speeds, designing method.....	1047
Dept. to continue studies—		swept-wing combination at low	
law.....	15644	speed, effects of moderate side-	
reports.....	14488, 15816	slip on flow fields.....	16856
organic compounds, fungus inhib-		swept-wing fighter airplane, drag	
itive properties.....	3984	investigation.....	16818
Fungus diseases, forest products and		13-percent-thick model, leading-	
decay in trees, list of publica-		edge and trailing-edge area	
tions.....	10171	suction flaps, wind-tunnel in-	
Fur:		vestigation.....	960
catch in U.S., 1958.....	16392	unswept, sweptback, modified delta-	
production, etc., world survey.....	11764	wing combinations at zero side-	
Furnaces:		slip, experimental static aero-	
reverberatory at Krasnoural'sk Cop-		dynamical forces and moments at	
per-Smelting Combine, materi-		high subsonic speeds.....	10485
al and thermal balances,		wing-body combinations—	
USSR studies.....	10269	downwash characteristics at	
shaft, contribution to metallurgy		transonic speeds.....	1029
in GDR.....	1791	list properties and induced	
warm air, industry, outlook for		drag.....	8090
1959 and review of 1958.....	1429	low-speed pressure distribution.....	1063,
see also Blast furnaces—Solar			6744
furnaces.		wing-fuselage, etc., combinations—	
Furnishings (apparel), see Clothing.		body contouring effect on longi-	
Furnishings (household), see House-		tudinal characteristics.....	2022
hold goods.		division of loads summary of	
Furniture:		data.....	16806
and fixtures, manufacturing plants,		Fuses (ignition devices):	
location by county and employ-		missile pull-off from aircraft on	
ment size.....	7219	arrested landing, safety test	
Federal supply schedule.....	412,	for use in development of	
4832-34, 6174-75, 9021-22,		fuses, military standard.....	8927
10115, 12669-670.		test for use in development, air-	
hospital, Federal supply catalog..	7657	craft safe drop.....	4766
household—		test for use in production, five foot	
facts for industry.....	9718	drop.....	4767
industry, outlook for 1959 and		Fusion, products from thermonu-	
review of 1958.....	1413	clear plasma.....	17809
labor turnover rates per 100 em-		Future jobs for high school girls.....	5469,
ployees.....	7988		13665
manufacturers, list of publications		Futures, see Commodity exchanges—	
for use.....	3561	Speculation.	
		Fuzes, see Fuses (ignition devices).	
		Fye, Abraham, relief.....	8566, 11945, 12359



# INDEX, 1959

G		Entry	Entry
G.A.O., <i>see</i> General Accounting Office.			
G.O.C., <i>see</i> Ground Observer Corps.			
G.P.O., <i>see</i> Government Printing Office.			
G.S.A., <i>see</i> General Services Administration.			
Gabon, sending gift packages to—	16409		
Gages:			
beta-ray, for measuring thickness of magnetic tape—	10549		
plug, plain, cylindrical—			
go, military standard—	16245		
not go, military standard—	16246		
plug, thread—			
go, class X, military standard—	16241		
not go, military standard—	16242		
ring, thread—			
go (class X) etc., military standard—	16243		
<i>see also</i> Electric gages.			
Gaging stations, average discharge and change of storage, Pacific Northwest, 1943-57—	16455		
Gahn, Georg, and sister, relief—	4475		
Galatheidæ, West Indian species, parasitized by Rhizocephala of family Peltogastridae—	1108		
Gallant, Joseph E., relief—	4516, 8791, 11883		
Gallant Ship Unit Citation award to SS Meredith Victory and crew, report—	14499		
Galvanic corrosion, <i>see</i> Corrosion and anticorrosives.			
Galveston, Tex.:			
harbor improvement, engineer report—			
departmental edition—	376		
document edition—	289		
Galveston, Houston & Henderson R.R.:			
relief—			
law—	11954		
reports—	7351, 8788		
Gambino, Antonella, relief—	7525		
Gambling:			
forfeited property to D.C., report—	15868		
wagering tax regulations under internal revenue code of 1954—	10200		
Game and game birds:			
big game inventory for 1957—	3514		
conservation, laws relating to, compilation—	285		
migratory birds, seasons, 1959-60—	17431		
TVA Forestry Relations Division, Fish and Game Branch report—	15225		
<i>see also</i> Water birds.			
Game birds, <i>see</i> Game and game birds.			
Game fish, <i>see</i> Fish and fisheries.			
Games:			
athletic, held for benefit of crippled retarded children, except from a tax—			
law—	15684		
reports—	14234, 14534		
industry—			
midyear review and outlook for 1959—	9688		
outlook for 1959 and review of 1958—	1411		
<i>see also</i> Olympic games—Pan American games.			
Gamma rays:			
chronic irradiation effect on ovaries, USSR study—	3645		
dosimetry in irradiation of human head, USSR study—	6441		
irradiation and aureomycin hydrochloride effects on meat preservation, tests—	8394		
measurement of radiation in Brookhaven reactor by calorimetry—	5640		
measurement of 35Br-82 and 37Rb-82—	3157		
Gamma rays—Continued			
protection, USSR study—	13127		
protective effect of freezing meat before irradiation, research—	8395		
radiation of foods stored at room temperature, human feeding, studies of nutritional aspects and toxic effects—	5633		
radiation of Na <sup>22</sup> and Ne <sup>20</sup> , theses—	11722		
shield design using IBM type 650 computer—	7139		
GAO, <i>see</i> General Accounting Office.			
Gar Wah Wong, <i>see</i> Wong Gar Wah.			
Garbage, <i>see</i> Refuse.			
Garcia, Cesar, relief—	4474		
Garcia de Zepeda, Eva, <i>see</i> Zepeda, Eva Garcia de.			
Garden Grove, Calif., population, special census—	7197		
Gardening, <i>see</i> Gardens—Hotbeds.			
Garden Key, Fla.:			
memorial tablet to Samuel A. Mudd, erection—			
law—	15666		
reports—	14269, 16176		
Gardening, <i>see</i> Gardens.			
home—			
fruit, Central Southwestern States—	8316		
fruit, Northern Great Plains, Northern Mountain and Intermountain States—	11627		
fruit, Pacific Coast States and Arizona—	5536		
insects and diseases of vegetables—	11626		
iris growing—	17194		
home and garden bulletins—	94-96, 1306, 5534, 8314-18, 11626, 15309, 17194		
Gardner, Sylvester L., relief—	12093, 14414, 15593		
Gareloi Island, volcanic activity, geologic reconnaissance—	7845		
Garments, <i>see</i> Clothing.			
Garnet, magnetic resonance, dipole fields and normal modes—	16990		
Garnishment, <i>see</i> Attachment—Wages.			
Garrard County, Ky., John Burdette barite-fluorite deposit—	10455		
Gary, Ind., electric facilities of area, map—	16336		
Gas:			
Crow Reservation, grant to certain Indians—			
law—	15648		
Crow Reservation, grant to certain Indians, reports—	14440, 15836		
deposits—			
lands beneath inland navigable waters, Alaska, lease—	3388		
northern part of territory of North Caspian depression, USSR studies—	7917		
northern Siberia—	17641		
diffusion—			
concentration data analyses, sampler—	5598		
techniques and meteorological equipment used in project prairie grass field program—	1352-53, 17224		
electric ignition of combustible-gas mixtures, recent developments—	6673		
fuels and raw materials in Poland, problems—	684		
gas fitting, manual—	8961		
industry, injury experience, 1958—	13311		
interstate compact to conserve—			
consent of Congress—			
hearing—	8739		
law—	14003		
reports—	8702, 12465		
report of Attorney General—	875		

# JANUARY-DECEMBER

Gas—Continued	Entry	Gases:	Entry
leases—		absorption in presence of surface-active agents, USSR study.....	14859
in Alaska, increase acreage limitation—		adsorption—	
hearing.....	12541	role in structure of adsorbents, USSR study.....	10348
reports.....	12477	theory and phenomena.....	3118
veto.....	14114	blast-furnace top gas, gravimetric method for analyzing.....	5209
increase leasing term, hearings.....	12545, 14564	combustion, measurement of temperatures by gas radiation pyrometer.....	4273
increase rental, etc., hearings.....	14564	compressed and liquefied, facts for industry, 1958.....	15471A
prevent undesirable divisions, hearings.....	14564	effect on density of layer of potassium ethyl xanthogenate on surface of gold, silver, copper and their alloys by means of radioactive isotopes, USSR study of theory.....	1744
protection from cancellation, etc.—		effects of chemical dissociation and molecular vibrations on steady one-dimensional flow.....	15082
law.....	15659	ejected into stream from bluff-body flameholder, flame stability effect.....	15085
reports.....	15849, 15916, 16069	electrons and negative ions, production and removal.....	11674
remove acreage exemptions, hearings.....	12545, 14564	exhaust, combustor research analysis.....	5272
terminated by Land Management Bureau, reinstate.....	15599, 15780, 16003A	exhaust gas air pollution in cities, control problems, USSR study.....	7949
validate, extend, etc.—		flow through microporous media, theory of flow phenomena.....	4310
hearings.....	14564	flue, sulfur dioxide removal by liquid scrubbing cost estimates	9352
report.....	12475	fluid dynamics, reversible heat addition theory application.....	17745
liquefied petroleum—		halogen containing, as boundary lubricants for corrosion-resistant alloys at 1200° F.....	5292
sales, 1958.....	15020	hot, venting through temperature inversions.....	4262
underground stocks, monthly report.....	2810	industrial, processes for removing hydrogen sulfide, bibliography.....	13315
liquid, partition chromatographic unit, design and construction.....	3996	interaction with liquid and solid phases, pyrometallurgical processing.....	4306
Mines Bureau research and technological work.....	13318-319	liquefied, single-phase transfer, techniques.....	2056
natural—		medicinal, Air Force pamphlet.....	3111
equation of continuity with applications to transport of radioactive gas.....	14744	monatomic, shock waves structure.....	3941
exploitation in Rumania, development.....	1936	perfect flow, over circular cylinder at infinite Mach number, numerical solution.....	6769
helium-bearing, analysis, etc.....	1983	poisonous, automatic alarm system.....	14866
liquids and liquefied refinery gases, monthly report.....	2823, 11365	rarefied, determination of specific surface of powder-form bodies on basis of resistance to filtration, USSR studies.....	1907
liquids, minerals yearbook chapter.....	17705	thermal separation by adsorption method theory, USSR study.....	13276
minerals yearbook chapter.....	3870	see also Chemical warfare—also names of gases.	
production, etc., 1958.....	15024	Gasoline:	
quarterly natural gas report.....	2824, 11366	natural, and cycling plants in United States, 1958.....	13313
statistics of companies, 1958.....	14631	publications, price list.....	15163
Poland, development plan on background of general power economy.....	685	service-station deliveries—	
producing fields, known geologic structures, procedures for defining.....	17491	contractors, list.....	16349
prospecting—		Federal supply schedule.....	419
buried structures, USSR study.....	6430	solid.....	13770
central Asia, problems.....	6429	tax increase—	
geological and exploration problems, 1959-65, USSR studies.....	6427	law.....	15707
USSR, increase search for new fields.....	6428	message from the President.....	15771
publications, price list.....	15163	reports.....	15876, 16128
quitclaim U.S. rights to Alaskan homesteaders, hearing.....	16208	views.....	15876, 16128
retail prices and indexes.....	2744, 11281	tax refund, nonhighway and transit users.....	1726
subsonic streams, coaxial jet mixing, investigation.....	5300	tetraethyl lead, public health aspects of increasing content.....	17830
with high supersonic velocity—			
effect on moving panel stability.....	3948		
effect on moving plate vibrations.....	3949		
see also Gases.			
Gas burners, natural air for top-fired preheater, description.....	17711		
Gas ejectors, see Ejectors.			
Gas generators:			
high temperatures, use of modified tubular combustors, turbine cooling studies.....	999		
hot gas generators for power system.....	11691		
Gas turbines, see Turbines.			
Gas warfare, see Chemical warfare.			

# INDEX, 1959

	Entry
Gasoline—Continued	
wholesale distributors, treat as producers for purposes of tax, amend internal revenue code, report	14287
world retail prices and taxes	2787, 11331
Gasoline engines, <i>see</i> Engines.	
Gastritis, death rates by age, color, and sex, 1949-51	15106
Gastrointestinal tract, irradiated animals, function, reflex effects from internal organs, USSR study	5122
Gastropods, family Vermetidae to Thaididae description of Tertiary mollusks	14754
Gates:	
panel, overbank control structure forces, hydraulic model investigation	6109
three-way cutting, for sheep farm building plan	17205
GATT, <i>see</i> General agreement on tariffs and trade.	
Gaza Strip, gazetteer, official standard names, list	14743
Gazetteers, <i>see</i> Geographical names.	
GDR, <i>see</i> Germany.	
Gebran, Taufic Daoud, <i>see</i> Daoud-Gebran, Taufic, and wife.	
Gee, Yee Y., <i>see</i> Yee You Gee.	
Geese, <i>see</i> Nene geese.	
Geikie Inlet, geology of area	4926
Gel-coated glass-fiber-reinforced polyester resin:	
bathtubs	8431
shower receptors	8432
Gelatin, facts for industry	2371, 10902
Gemma gemma, <i>see</i> Clams.	
General Accounting Office:	
access to information, denial by executive agencies, hearings	14570
accounting forms, manual for guidance of Federal agencies	6280
Air Force missile information availability—	
hearings	1547
report	5873
views	5873
appropriations, 1960, hearings	7454
Comptrollers General, annuities to widows and dependent children—	
law	11974
reports	8711, 9986
decisions—	
July 1, 1957-June 30, 1958	1703
daily synopses	2651, 11191
monthly	2650, 11190
Navy refusals of information, hearings	9009
opinions, <i>see</i> , above, decisions.	
policy and procedures manual for guidance of Federal agencies	1704-7, 3590, 4917, 6278-79, 7841, 9109-10, 10185, 12758, 14740-741, 17481-482.
professional accounting careers, recruitment brochure	14742
releases	2652, 11192
report, 1958—	
departmental edition	3589
document edition	3279
General Advisory Committee, AEC, members to serve without regard to conflict of interest statutes, hearing	14101
General agreement on tariffs and trade:	
commercial relations involving United States fishing industry and European Common Market	4852

	Entry
General agreement on tariffs—Con.	
currency convertibility and commercial policies, contracting parties (statement)	9509
notice of U.S. intention to negotiate, etc.	17852
rectifications and modifications to texts of schedules, protocols	10596-597, 17101
renegotiation with Brazil, analysis	5417
General aviation alert bulletin	12633
General Counsel, Agriculture Dept., appropriations, 1960, hearings	5909
General Counsel of Treasury, report for Coast Guard	7654
General Edgar Jadwin Dam and Reservoir:	
designating—	
law	15699
reports	14258, 16175
General Grant National Memorial, general information	9416
General maintenance alert bulletins	1617, 4801
General maintenance inspection aids	2515, 11049
General Services Administration:	
abaca fiber program, 1957, audit report	7330
acquire land in D.C. and convey to Pan American Health Organization for use as headquarters site—	
hearing	14577
report	14478
authority to construct, alter, or acquire public buildings and grounds—	
hearings	8751, 14577
law	15626
reports	9859, 12137, 14477
authority to pay appraisal fees, etc., connected with utilization of excess property, extend—	
law	14068
reports	6008, 8632
disposal of diamonds, platinum, and zircon concentrates from national stockpile, reports	12178, 14538
disposal problems of Government nickel plant at Nicaro, Cuba—	
report	12182
views	12182
Federal property transfers, hearing	12530
GSA news releases	2653, 11193
law establishing, with analysis and index	4919
nickel-cobalt contracts, investigation, hearings	12291
patent practices, preliminary report	17359
procurement, small business participation, report	1565
report, 1958	3591
General Thomas J. Rodman Laboratory, reports	8165, 9444-45
Generative organs:	
malignant neoplasm, death rate by age, color and sex, 1949-51	10521
statutory award to veterans for loss, payment without filing claim, report	8681
Generators, aircraft; A-C parallelly connected, problem of automatic frequency control	13763
<i>see also</i> names or types of generators.	
Genesis of tin and tin-tungsten deposits of Transbaykal	7927

	Entry		Entry
Genetics:		Geographical names	
chemical basis, role of nucleic acids,		decision list.....	10186, 17483
UkSSR conference.....	5413	gazetteers.....	12759-760, 14743
effects of small doses of ionizing		see also names of localities	
radiations, USSR study.....	10357	Geography:	
ionizing radiation effect on descend-		agricultural, of hilly regions of	
ants, USSR study.....	13239	Southeastern Hunan Province.....	12880
methodological problems, USSR		China—	
study.....	16615	botanical, by regions.....	13189
microorganisms and present-day		north, natural geographic data.....	1838,
views on heredity, USSR		5030, 5052	
study.....	14955	north west, geographical survey.....	1844
philosophical problems, USSR		north-west, survey.....	1843, 1845
study.....	16617	economic, of Kwangtung.....	574
Geneva, Switzerland:		economic investigations, in Com-	
conference on discontinuance of nu-		munist China, methods used.....	12883
clear weapons tests, hearings.....	7611,	fields, scientific activity of Moscow	
16202		University during postwar pe-	
conference on Germany, review of		riod.....	6624
negotiations, text of state-		North Vietnam, Cultural-Historical-	
ment.....	15202	Geographic Research Commis-	
meeting of foreign ministers, May-		sion, history and functions.....	12813
Aug. 1959.....	17095	political, military aspects, AFROTC	
Genital organs, see Generative or-		textbook.....	13751
gans.		profile of Ta-pleh Shan area,	
Geochemical prospecting, see Pros-		China.....	12886
pecting.		series, news of Academy of Sci-	
Geochemistry:		ences, USSR abstracts.....	10837
barite deposits, production, use,		see also names of places.	
etc. in U.S.....	1711	Geologic names of North America	
contributions to geochemistry (se-		(series).....	17485
ries).....	4927,	Geologic time, studies in geochronol-	
6288, 12764A, 16465-466		ogy (series).....	17489
geochemistry (USSR periodical),		Geological Division, Moscow Society	
abstracts.....	7175, 10797	of Naturalists, bulletin, ab-	
Soviet abstracts.....	765, 781, 785, 1852	stracts.....	7167
1857-58, 1860, 3745, 3748, 3752,		Geological Survey:	
6567, 10321, 13916, 13106,		bulletins.....	506-514, 1708-13, 4921-
13118, 13133.		28, 3593-3600, 6282-88, 7844-48,	
uranium in apatite and phospho-		9114-17, 10188-191, 12761-	
rite.....	518	764A, 14744-748, 16456-467,	
uranium of Phosphoria formation.....	16465	17485-490.	
USSR problems and plans.....	10365	circular.....	515-516,
Geochronology, see Geologic time.		3601-3, 4929, 12765-766, 17491	
Geocryology, Soviet frozen ground		general information.....	517
science, content and object.....	17636	land acquisition, amend act, report.....	8646
Geodesists, examination announce-		maps and charts, general informa-	
ments.....	251, 4376, 5750	tion.....	7849
Geodesy:		professional papers.....	518-519, 1714,
Central Scientific Research Insti-		3604, 4930, 6289-95, 7850-56,	
tute USSR, proceedings, ex-		9119-21, 10192-193, 12767-770,	
cerpts.....	1797	14754-756, 16469, 17492.	
contributions of moon observa-		publications, monthly list.....	2656, 11195
tions.....	640	releases.....	2659, 11198
development in USSR under 40		reports and maps released only in	
years of socialism.....	636	open files, 1958, list.....	12765
development of establishment of		uranium and thorium reports.....	
horizontal datum of 1st order,		bibliography.....	17490
Hungarian studies.....	6409	water supply papers.....	520-523,
geodesy and cartography (USSR		1715-17, 3605-6, 4931-32, 6296-	
periodical), abstracts.....	10798	99, 7857-63, 9122-30, 10194-195,	
geodetic data use in determining		12771-777, 14757-765, 18470-	
mass and shape of earth.....	10262	475, 17494-495.	
geodetic developments in People's		Geologists:	
Republic of China.....	16579	Chinese, accomplishments reported	
geodetic gravimetry, basic prob-		in 1st all-China geological	
lems.....	7166	conference.....	10364
news of institutes of higher learn-		examination announcements.....	3212, 15520
ing of Ministry of Higher Edu-		discontinuance notice.....	3220
cation, USSR, abstracts.....	10845	Geology:	
see also Surveying.		airborne reconnaissance project,	
Geodetic astronomy, see Astronomy.		Ruby Range and Sweetwater	
Geodetic instruments, building in		Basin, Mont.....	15415
USSR.....	639	Alaska, possible petroleum sources.....	17488
Geographic Names Board:		Arctic regions, summary of talks.....	9633
decision list.....	10186, 17483	Arkansas—	
gazetteers.....	7843, 9111-13,	bauxite region.....	7850
10187, 12759-760, 14743		pre-Atoka rocks.....	14755
Geographic Society of USSR, meteor-		Asiatic Continent to Pacific, crustal	
ological commission of Moscow		structure researches in transi-	
affiliate, meetings, etc.....	1882	tion region, USSR studies.....	4982
		barite deposits, production, use,	
		etc. in U.S.....	1711
		bauxite deposits in Hungary.....	614
		Beluga River coalfield, Alaska,	
		reconnaissance.....	2012



# INDEX, 1959

	Entry
Geology—Continued	
Big Blue River Basin above Crete, Nebr.-----	7862
Canal Zone and adjoining parts of Panama-----	14754
Centralla-Chehalis coal district-----	509
Chattanooga shale of Tennessee as uranium source-----	17258
Chicago Creek, Clear Creek County, Colo-----	9121
Chinese People's Republic, geological-prospecting survey, achievements-----	17640
Clay County, Nebr-----	9126
coastal Puerto Rico (series)-----	12769, 17492
contributions to economic geology (series)-----	507-508, 514, 1708-11, 6284, 6286-87, 6294, 9116, 12762, 16459-460
contributions to general geology (series)-----	512-513, 10191
contributions to geology of uranium (series)-----	3594-96, 4922, 7846, 9117, 10189-190, 12763, 14747, 16457, 16467, 17490
control of radon in mountain streams-----	3597
Delanof and westernmost Andreanof Islands-----	7844
Eureka, Humboldt County, Calif-----	9127
expansion of geological science, Khrushchev recommendations at 21st Congress of CPSU-----	6405
fields, scientific activity of Moscow University during postwar period-----	6624
Gelkie Inlet area, Glacier Bay, Alaska-----	4926
geographic-morphological requirements for terrain representation, German studies-----	3705
geology and construction materials, part of northeast Kansas (series)-----	6284-85, 14746
geology and geochemistry of selenium based on analysis of volcanic rocks from selected localities-----	12764A
graphic-locator method in geologic mapping-----	10191
Horseshoe Atoll-----	
Borden and Howard Counties, Tex-----	14756
Scurry and Kent Counties, Tex-----	16459
hydrogeology and engineering geology of eastern Siberia, USSR studies-----	6602
international scientific relations, USSR studies-----	6418
Kenai coal field, Alaska-----	17486
Khorat Plateau, Thailand, reconnaissance-----	521
known structures of producing oil and gas fields, procedures for defining-----	17491
Lake Mary quadrangle, Iron County, Mich-----	16461
land-pebble phosphate district, Fla., exploration results by core drilling, 1953-----	10189
Little Sitkin Island, Alaska-----	3593
Lodgepole Creek drainage basin-----	16472
lower Niobrara River and Ponca Creek Basins-----	7860
marine-----	
and submarine oil resources problems-----	16550
geophysical research, USSR study-----	17576
Marion County, Kans-----	6284
Matanuska coal field, Alaska-----	3598
Medina County, Tex-----	14760

	Entry
Geology—Continued	
metal-mining districts, San Juan Mountains, Colo., reconnaissance study-----	3596
Mississippi River deltaic plain, southeastern Louisiana-----	393
Mojave Desert and adjacent region, Calif., investigation (series)-----	6283, 9115
Mona Island, Puerto Rico, and notes on age of Mona Passage-----	12769
Mount Katmai area, Alaska-----	16458
Nemaha County, Kans-----	14746
nonparallel folds, classification, delineation and measurement-----	6294
North American-----	
bibliography, 1956-----	12764
geologic names, index-----	17485
Ord Mine, Mazatzal Mountains, quicksilver district, Ariz-----	508
Paraguay, reconnaissance study-----	7855
Pierre area, S. Dak-----	10192
Placerville quadrangle, San Miguel County, Colo-----	9116
Pottawatomie County, Kans-----	6285
preglacial Teays Valley in west-central Ohio, study-----	3605
problems of petrology-----	6425
prospecting features of buried structures-----	6430
publications, price list-----	17031
quaternary, Smoke Creek-Medicine Lake-Grenora area, Mont. and N. Dak-----	7848
radioactive deposits, investigations, progress report-----	
Dec. 1956-May 1957-----	4322
June-Nov. 1958-----	9663
reconnaissance, San Clemente Island-----	512
Reid Inlet area, Glacier Bay, Alaska-----	4925
relationship between exploration, surveying, and prospecting-----	5154
report of 1st all-China geological conference-----	10364
resources, Tiptop quadrangle, Ky-----	507
Salpan-----	12767
Scott Valley, Calif-----	3606
Segula, Davidof, and Khvostov Islands, Alaska-----	9114
selected bibliographies of uranium geology (series)-----	510
selenium, bibliography-----	4921
series, news of Academy of Sciences, USSR, abstracts-----	10838
shorter contributions to general geology (series)-----	518, 4930, 6290, 6295, 7853, 7856, 12768, 14755
Siberian diamond-bearing province-----	642
Soviet geology for 40 years-----	6423-24
structures of ore fields and deposits in USSR-----	6426
survey, Ob' River and Valley, characteristics, USSR study-----	6417
Ta-tung Basin in northern Shansi, sketches of land forms-----	12837
tectonophysical investigations, results and prospects, USSR studies-----	3802
tectonophysics, new prospective branch of geology, USSR studies-----	9201
Torrance-Santa Monica area, Calif-----	9123
Townsend Valley-----	1708
Tung-ting-shan land forms in Kiangsu-----	12838
deposits-----	
Big Four fault system, Crittenden County, Ky-----	6282
uraniferous bog, Pettit County, Kern County, Calif-----	15416



# JANUARY-DECEMBER

	Entry		Entry
<b>Geology—Continued</b>		<b>Geophysics Research Directorate:</b>	
uranium-bearing marine black shales in U.S., bibliography...	510	Air Force surveys in geophysics...	1350-51, 3114, 17221
use of scintillation counters...	4923	geophysical research papers...	1352-53, 5596, 13749, 17224
vegetation of northwest North America as aid to interpretation of geologic data...	1710	research notes...	1354, 3115, 4262-63, 5597-98, 7106-8, 9633, 11671-674
Wabauunsee County, Kans. ....	12761	Georgandopoulos, Argyrios G., relief...	7511, 12053, 13937
work program, 21st session of international congress, USSR study...	13244	George Ewing lock and dam, design, report...	7583
Wu-ting Ho Valley in northern Sheusi, geomorphological problems...	10223	George Mason Memorial Bridge: designating—law...	11973
see also Cenozoic era—Mississippian period—Naval petroleum reserves—Phosphoria formation—Silurian period—Stratigraphy—Triassic period.		reports...	5893, 10014
Geometrization and calculation of gold reserves in dredge dumps...	1787	George, Walter F., lock and dam, see Walter F. George lock and dam.	
Geomorphology, see Geology.		George Washington's river, new water pollution film...	8189
Geophysical year, 1957-58, see International Geophysical Year, 1957-58.		Georges Bank, hydrographic surveys, raydist control...	17303
Geophysicists, examination announcement...	5722	Georgetown Visitation Junior College, D.C.: modernize charter—law...	8517
<b>Geophysics:</b>		reports...	4610, 7592
Air Force surveys in geophysics...	146, 1350-51, 3114, 17221	Georgetown Visitation Preparatory School, D.C.: modernize charter—law...	8517
electric geophysical exploration methods of pure anomaly, USSR study...	3693	reports...	4610, 7592
experimental and theoretical geophysics (series)...	3597, 4923-24, 7847, 14744-745, 14748, 16462-464.	<b>Georgia:</b>	
field investigations (series)...	7854	census of governments, 1957, State bulletin...	11781
geophysical abstracts...	2654, 11194	climate...	10634
geophysical field investigations (series)...	519	climatological data...	2993, 11546
geophysical research in marine geology, USSR study...	17576	electric rate book...	17409
geophysical research papers...	1352-53, 5596, 13749, 17224	landings, fishery products...	2615, 11153
geophysical work, Marysville, Utah, notes...	11735	annual summary...	4847
Hungarian academic and research institutes, etc...	1876	mail routes, schedule...	2102
induced polarization method of geophysical explorations, background effects, progress report, 1956-57...	1391	middle coastal plain—international ¼-in. board foot volume tables for old-field slash pine plantations...	10181
instrumentation for research...	149-150, 17225	slash pine plantations, cubic foot volume tables...	12754
International Geophysical Year activities, report, hearings...	5915	mineral industry, minerals yearbook chapters...	929, 17085
Main Geophysical Observatory conference of young specialists... Imeni Voyeykov, USSR, results of 1957 work, summary of session of its scientific council...	1874	plane coordinate intersection tables...	11850
methods of prospecting and exploration of underground regions, USSR...	1903	precipitation data, hourly...	2996, 11549
Pechora coal basin industrial work, results...	1802	stock peanuts, insect infestation as factor in storing...	17200
preglacial Teays Valley in west-central Ohio, geophysical study...	3605	TVA program activities...	2164
series, news of Academy of Sciences, USSR, abstracts...	10839	weather stations, decadal census...	15245
solar-geophysical data...	2848, 11389	Georgia Kaolin Co., relief...	8561, 15610, 16004
Soviet bloc international cooperation information...	10886	<b>Georgian Soviet Socialist Republic:</b>	
telluric currents method of electrical prospecting, USSR studies...	7918	ferrous metallurgy development...	7919
United States post IGY, scientific program, hearing...	1553	Institute of Geophysics, Academy of Sciences, organization, achievements, etc...	1938
Uravan area, Colo., investigations...	7854	<b>German Cartographic Society, 8th convention, Rendsburg, Germany...</b>	3707
Geophysics Institute, Academy of Sciences Georgian SSR, organization, achievements, etc...	1938	<b>German Democratic Republic, see Germany.</b>	
		<b>Germanium:</b>	
		crystals, measurements, tests, and equipment, catalog of technical reports, 1935-58...	
		determination in coal ash from powerplants...	5185
		<b>Germany:</b>	
		background documents, 1944-59...	8889
		cartels, new law, register and filing procedures...	459
		customs valuation under revised German tariff law...	10151
		<b>Democratic Republic, see below, Soviet Zone.</b>	
		<b>East, see, below, Soviet Zone.</b>	

Do not order from index; see indicated entry

Page 241

# INDEX, 1959

Entry	Entry
Germany—Continued	Germany—Continued
Federal Republic—	gazetteer—Continued
atomic energy, cooperation for	prefabricated brick blocks use in
civil uses, agreement-----	building-----
atomic energy, cooperation for	railroads, duties of railroad prop-
mutual defense purposes,	erties, administration, review
agreement-----	and present situation-----
hearings-----	railways, enterprise service and
reports-----	traffic service, problems-----
text-----	selected economic transla-
certificates of airworthiness for	tions-----
imported aircraft, agreement-----	730, 780, 1831, 5064, 5083, 6504,
economic developments-----	6574, 12999, 13003, 13037,
economic statistics, handbooks-----	13048, 13113, 13128-129, 13161,
investments, revised regulations-----	13167, 14879, 14888, 14895,
1656, 9059	14907, 16566, 16571, 16583,
living conditions-----	17583, 17591, 17597, 17608,
loan of vessels and small craft,	selected political and sociological
agreement-----	translations-----
medical research and develop-	selected sociological transla-
ment-----	tions-----
medical research situation-----	6375, 12852, 17560,
postwar economic assistance,	statistical yearbook, 1957, trans-
settlement of U.S. claim, agree-	lation and glossary-----
ment-----	3d Reich, 1st phase, foreign policy
residence and business rights of	documents-----
aliens-----	9502, 15195
United States forces mainte-	topographic maps, area generaliza-
nance, costs, agreement-----	tion-----
foreign policy documents-----	war damage claims against, pay-
iron and steel industry, economic	ment, report-----
efficiency, study-----	West, see above, Federal Republic.
limitations of thermoelectric effect	Gewinner, Ursula, relief-----
in case of semiconductors (lec-	Ghana:
ture)-----	guaranty of private investments,
military personnel of U.S. ordered	agreement-----
to, helpful hints, changes-----	large cocoa crop spurs economy-----
newspaper article, China's leap for-	preparing shipments to-----
ward in 1958-----	relief supplies and packages, agree-
reunification, relation to arms con-	ment-----
trol problem in Europe, hand-	8251
book-----	Giangrande, Alfonso, relief-----
review of Geneva negotiations (text	5818
of statement)-----	Gibbon River, fishery management
scientific research-----	studies-----
colored terrain representation-----	14675
conductivity of organic dyes, re-	Gibson, George W., relief-----
lationships with temperatures-----	14170
geographic-morphological require-	Gibson City, Ill., railroad accident-----
ments for terrain representa-	548
tion-----	Gift tax, see Inheritance and trans-
ground pressure field prognosis-----	fer tax.
terrain representation, current	Gifts:
methods, etc-----	free importation from members of
terrain reproduction, scanning of	Armed Forces-----
half-tone drawings-----	law-----
topographic terrain survey as	reports-----
prerequisite for cartographic	8557, 10005
terrain representation-----	sending packages to-----
wide-aperture direction finder,	Algeria-----
wullenwever-----	Argentina-----
13708	Bolivia-----
1450	Brazil-----
16396	British East Africa-----
16676	Burma-----
Black Pump Combine and other	Chile-----
industrial enterprises in south-	Cyprus-----
east sector of Cottbus Bezirk-----	Czechoslovakia-----
foreign trade, operational valuta	Denmark-----
reserve, planned procurement-----	Ecuador-----
gazetteer, official standard names	Federation of Malaya-----
list-----	foreign countries, U.S. export
12759	regulations-----
health and sanitation reports-----	6219
10284, 13029, 13042, 13126,	Gabon, central Africa, Chad, and
14869	Congo-----
labor force-----	Germany-----
13868	Greece-----
machine management sector of	16410
East German Reichsbahn-----	Guatemala-----
810	Hungary-----
metallurgical industry, develop-	10144
ment-----	Iran-----
12910	Ireland-----
metallurgy of low shaft furnace,	Israel-----
contribution-----	16414, 16413
1791	Norway-----
postal and telecommunications	14683
system, regulations-----	Pakistan-----
17532	16415
	Philippines-----
	16416
	El Salvador-----
	16407
	Singapore-----
	16417
	Tunisia-----
	17440
	Turkey-----
	16418
	Union of Soviet Socialist Re-
	publics-----
	17441
	Yugoslavia-----
	14684

# JANUARY-DECEMBER

	Entry		Entry
Gila project:		Gilders (aircraft):	
flood control, engineers report—		airworthiness, civil aeronautics	
departmental edition.....	4783	manual.....	16284
document edition.....	4668	Glides, rubber cushion, for hospital	
Gila River:		equipment, standard of trade.....	9683
Camelsback Reservoir flood control,		Glikowski, Moses, and wife, relief.....	4484
etc., engineers report—		Globigerina ooze, lower Eocene phosphatized from Sylvania Guyot	
departmental edition.....	4783	mode of occurrence, mineralogy, etc.....	9119
document edition.....	4668	Glossaries:	
Gill nets, <i>see</i> Fish nets.		air traffic control terms.....	6119
Gim Bong Wong, <i>see</i> Wong, Gim Bong.		Albanian statistical yearbook, 1958.....	16536
Ginning, <i>see</i> Cotton gins and ginning.		Czechoslovak statistical yearbook, 1958.....	12891
Gins, <i>see</i> Cotton gins and ginning.		German Democratic Republic statistical yearbook, 1957.....	17513
Girdling, frills must be complete.....	6275	Hungarian statistical yearbook, 1956.....	14794
Girl Scouts of America, report, 1958.....	8540	ice found at sea, Russian-English.....	13305
Girls, high-school, future jobs.....	13665	prepaid dental care.....	17057
Glacial period, Pleistocene birds in North America, review.....	4059	standardized terms, Air Force manual.....	3087
Glacier Bay:		Gloucester, Mass., landings, trawl industrial fish, summary.....	428
geology and ore deposits.....	4925	Gloves:	
geology of Geikie Inlet area.....	4926	facts for industry, 1958.....	13859
Glacier Bay National Monument, general information.....	13489	work, industry, trade practice rules.....	7736
Glacier National Park, rocks and fossils, origin and history.....	6290	Glucose, x-ray irradiation, influence on blood flowing into and out of brain, USSR study.....	13259
Glaciers, melting, formation of sorted patterns in gravel overlying ice surface.....	17381	Glucosides, cardiac sensitivity in radiation sickness, USSR studies.....	1866
Gladolus, cut, production and sales, 1957 and 1958.....	8284	Glue:	
Glands, <i>see</i> Adrenal glands.		animal—	
Glass:		facts for industry.....	2371, 10902
and products manufacturing establishments, labor turnover rates per 100 employees.....	8000	production, etc., facts for industry, 1958.....	5687
catalog of technical reports, 1930-58.....	9676	gluing treated wood.....	12729
competitive problems of independent flat-glass dealers, hearings.....	3398	publications on glue, glued products, and veneer.....	6242
flat—		Gluten, wheat, addition to list of optional ingredients in bakery products.....	4867
facts for industry.....	2372, 4358, 10903	Glycerin, prevention of deterioration.....	4756
industry outlook for 1959 and review of 1958.....	1408	Go south young man (address).....	8495
glass and ceramics (USSR periodical), abstracts.....	10799	GOC, <i>see</i> Ground Observer Corps.	
motor vehicles, Federal supply schedule.....	3487	Goddard, Robert H.:	
products, manufacturing plants, location by county and employment size.....	7221	gold medal honoring—	
<i>see also</i> Glassware— <i>also</i> names of manufactured articles and materials.		law.....	15642
Glass-fabric-epoxy laminates, <i>see</i> Plastics.		reports.....	14239, 16096
Glass-fabric-polyester laminate, <i>see</i> Laminated materials.		Gold:	
Glassware:		and alloys, study of effect of gases on density of layer of potassium ethyl xanthogenate on surface by means of radioactive isotopes, USSR study of theory.....	1744
manufacturing plants, location by county and employment size.....	7221	and metallic hydrides cross sections determined with neutron spectrometer.....	8397
pressed and blown, industry, outlook for 1959 and review of 1958.....	1412	exports and imports, summary, 1958.....	5712
table and household, hand-made, trade agreement escape-clause investigation, report.....	8256	extraction from cyanide solutions by ion-exchange resins, USSR study.....	17587
<i>see also</i> names of articles manufactured from glass.		Glacier Bay, Alaska, deposits.....	4925
Glaucoma:		international flow.....	6163
references, annotated list prepared for professional workers, etc.....	9467B	mine production—	
screening, description of 8 case-finding programs prior to Feb. 1957.....	10569	annual, 1958.....	3866, 13354
Glaziers:		monthly reports.....	2813, 11358
apprenticeship and training, National standards.....	17240	Pend Oreille and Stevens Counties, 1902-56.....	1986
auto glass installation workers apprenticeship and training, national standards.....	17239	minerals yearbook chapter.....	17676
Glick, Zelda, relief.....	12108, 15584, 16020	mining methods and costs, Baguio Gold Mine, Baguio, Luzon, Philippine Islands.....	10429
Gliekmann, Bertha, relief.....	5964, 8571, 11886	production and consumption, report, 1957.....	8055
		reserves in dredge dumps, geometrization and calculation.....	1787

# INDEX, 1959

	Entry
Gold—Continued	
United States movements	2377, 10908
USSR deposits, reducing number of chemical analyses during asaying	10271
Gold (money):	
Mint Bureau report, 1957	8055
Golden Guernsey Dairy Cooperative, how it grew	3425
Goldman, Marcus I., and wife, testimony	16213
Goldschmidt, Hilda M. H., relief	5966
Gonodonta moths, fruit-piercing moths, taxonomic study	15330
Gonorrhea, description, cure, etc.	9470
Good faith, defense in price discrimination, amend Clayton act, hearings	12560
Good news for household workers (social security)	3994
Gorgas Memorial Laboratory: audit report, 1958	4440
facilities construction, etc., appropriations—	
hearing	15942
law	15661
reports	14312, 14506
maintenance and operation appropriations, increase—	
hearing	15942
law	15661
reports	14312, 14506
report, 1958	4440
Gornaya Shoriya, U.S.S.R., iron ores, over-all utilization	1912
Government:	
activities, influence on marketing in next decade (text of address)	9747
improved conservation of resources, bibliography	14585
industry and nuclear power (remarks)	5655
lessons for citizenship candidates, Federal textbook	6315
management of monetary fiscal and debt operations, hearings	15754
metropolitan Washington, staff study	342
organization and procedure, effectiveness in contest with world communism, investigation, authorization, report	8813
our Constitution and Government, Federal textbook	6315
place in our economic system (address)	13296
publications, price list	17032
role as hired hand on farm (address)	3078
statistics, practical business use	4054
United States role in international finance (remarks)	10628
see also United States—also headings beginning Federal—Government—National.	
Government buildings, see Public buildings.	
Government contracts:	
administration of Government property in possession of contractors, manual	6864, 9436
administrative management, contracting out Government responsibility, report	12186
AEC and contractors safety and fire protection, conference proceedings	8411
Army, prime contracts, monthly listing	2321, 10767
code of Federal regulations	4820

	Entry
Government contracts—Continued	
construction, Miller act payment bonds, date of statute of limitations—	
law	13998
reports	7417, 12457
contractor quality control systems evaluation, military standard	1588
defense, financing regulations	8916
defense contractors security program, Secretary of Defense to prescribe standards, report	15877
defense subcontracting, small business participation—	
hearings	10057
report	14496
DMP 105 and DMP 134, investigation, hearings	12291
equal job opportunity works everywhere	8179
gasoline service-station deliveries, contractors, list	16349
Government property in possession of contractors administration manual	10544, 15133
negotiated, study of armed services procurement act, report	14331
obtaining by small firms, basic information	4052
President's committee newsletter	2884, 11424
President's committee releases	11423
renegotiation act of 1951—	
extend—	
hearings	8762, 10034
law	11976
reports	7430, 8647, 9990, 12129
views	7430
text as amended	15982
Renegotiation Board regulations—	
amendment	17067
compilation	15177
renegotiation, credit or refund of income taxes, extend period for filing claims—	
law	15645
reports	4583, 14448, 15867
sale of municipal services by Bridgeport, Wash., to Government facilities during construction of Chief Joseph Dam, validate—	
law	14043
reports	9877, 14480
synopsis of proposed procurement, sales, and contract awards	2340, 10868
term contract TC series	17423
termination, etc., Navy administration manual	6665
Government corporations, see Corporations.	
Government documents, see Government publications.	
Government employees, see Government officials and employees.	
Government employment, see Employment.	
Government Employment Policy, President's Committee on, see President's Committee on Government Employment Policy.	
Government facts and figures for marketing decisions (address)	1457
Government housing, see Housing.	
Government life insurance, see Life insurance.	
Government offices:	
accounting forms, GAO guidance manual	6280, 10185
administrative agencies—	
executive and legislative oversight, hearings	1552
jurisdictional functions, divorce—	
ment, hearings	1552



# JANUARY-DECEMBER

	Entry
Government Offices—Continued	
administrative agencies—continued	
legislative functions, restriction, hearings	1552
administrative and management services contracting out Government responsibility, investigation, hearings	8746
administrative practice and procedure, study, authorization, report	3376
certain executive positions, adjust pay—	
law	15734
reports	12420, 14315
civilian agencies procurement, small business participation, report	1565
compensation for withholding State income taxes, prohibit—	
law	15735
report	14447
employment of aliens, consolidate and revise laws, report	12395
executive branch—	
exempt employees from D.C. income and franchise tax act of 1947, reports	8691, 16143
personnel administration, executive system—	
hearings	14576
report	16224
executive privilege to withhold information, hearings	14570
Federal agencies and philanthropies, hearings	1549
Federal departments and agencies, State-local relations, hearings	3325
Federal disaster relief manual, reports	14519, 14562
general Government matters appropriations, 1960—	
hearings	7453, 10026
law	11966
reports	7432, 9996
Government organization manual, 1959-60	10106
independent offices appropriations, 1960—	
hearings	5914, 7454, 8882
law	15630
reports	7416, 9997, 12205, 14243
industrial radioactive waste disposal, activities—	
hearings	12029
summary-analysis	14104
information as to organization, records, etc., publish reports of executive departments, etc.	7633
information availability, etc., investigation—	
report	15889
views	15889
information dissemination, etc.—	
hearings	1547, 9909, 14572
report	5873
views	5873
interagency training programs—	
fall 1959	13889
spring 1959	3228
names, emblems, and insignia, misuse, amend U.S. Code—	
law	15656
reports	5990, 12265
new critique of regulatory agency, remarks	13871
occupational classification, current practices in major agencies	9642
organization for space activities, investigation—	
hearings	8872
reports	12520, 16082

	Entry
Government offices—Continued	
organization of Federal executive departments and agencies—	
chart	6000
report	6061
overseas differentials and allowances act, report	15789
policies and procedures, General Accounting Office guidance manual	1704-7, 3590, 4917, 6278-80, 9109-10, 10185, 12758, 14740-741, 17481-482
promotion programs, expansion and improvement	261
records and papers, disposition, reports	4614-15, 5863, 7375, 7596, 8635, 8699, 9864, 9887, 12185, 12263, 14302-303, 15915, 15917
reductions in force in Federal agencies	7243
regulatory—	
communications on matters pending adjudication, prohibit, hearing	340
investigation, hearings	311, 1554, 3331, 5928, 9915, 15949A, 17334
investigation, report	1533
investigation, views	1533
members, termination of terms of office, make laws uniform, report	12412
reorganization, see in main alphabet, Government reorganization plans.	
role in dissemination of scientific information—	
hearings	14350
report	15920
scientific information activities	9423
statistical services	8424
summer employment	260
supergrade and research-scientific positions in various Federal agencies, hearings	15957
use of electronic data-processing equipment in compiling statistics, hearing	9920
Virginia agencies concerned with land use, planning, conservation in Washington metropolitan area	3399
see also Government supplies—also names of offices.	
Government offices reorganization, see Government reorganization plan.	
Government officials and employees:	
career opportunities offered through Federal service entrance examinations	13884
city taxes, withholding by Federal agencies, amend internal revenue code, report	14233
civilians, foreign areas, regulations	2955, 11503
classification act, amend—	
law	15734
reports	12426, 14315
code of ethics for Government service—	
legislative proposals, etc., staff report	3332
poster	9802
poster, print as House document, report	5847
Commerce Dept., President's safety award presentation for distinguished Federal civilian service (remarks)	9749
convicted of subversion, etc., restoration of annuities—	
hearings	5933, 7643
reports	5889, 5896, 6013
employment and payrolls, quarterly release	2758, 11297



# INDEX, 1959

Entry	Entry
Government officials and employees—	Government officials and employees—
Continued	Continued
erroneous overpayments, waive indebtedness of recipient, report—	withholding compensation for State income tax purposes, amend act—
14228	law—
Federal employee facts—	report—
7241	15735
Federal employment—	14447
monthly reports—	workers covered by unemployment compensation employment and wages—
2402, 10931	3425
statistics bulletins—	see also Civil service—Civil service pensions—Government offices—Holidays—Navy yards—also names of departments, etc., where employed.
2399, 10928	
Federal personnel, bimonthly statistics—	Government Operations Committee, House:
2462, 10994	calendars—
group appraisal, tool for managerial development—	2452, 10983
1139	hearings, etc—
group life insurance act of 1954, amend—	1547-50, 3324-28, 5925-26, 7467-68, 9909-11, 12287-294, 15944-946.
law—	investigations and studies, expenses, report—
15741	4544
report—	minority report—
14536	5874
health insurance program—	recommendations, 85th Congress, result, report—
hearings—	5867
8908, 14348	1534
law—	5867, 5873-74, 7377, 7379-80, 7387, 8631-32, 8711, 9843, 9848, 9851, 9885, 9888, 12172, 12181-182, 12237, 14245-247, 14288, 14311, 15871, 15889.
15746	views—
reports—	5873-74, 8631, 9848, 9885, 9888, 12181-182, 12237, 14288, 15889.
12410, 12410	
views—	Government Operations Committee, Senate:
13278	activities, 85th Cong., report—
in-service training (address)—	4715
income tax, State and Territorial withholding, regulations—	calendars—
6983, 8262	2471, 11004
manpower utilization and personnel management investigation, hearings—	hearings, etc—
8746	6061-62, 7618-20, 8890-91, 10049-45, 12293, 12538-539, 14561-562, 17353.
manpower utilization in Federal Government, hearings—	investigations and studies—
15955	effectiveness of governmental organization and procedure in contest with world communism—
motor vehicle operators, defense of suits against—	8813
hearings—	international health, etc., programs, U.S. participation—
14346	expenses, report—
report—	16088
12115	extension, report—
occupations—	3357
blue-collar workers—	investigations subcommittee, annual report—
8483	3379
white-collar workers—	6060
1497	reports—
official register, 1958—	3378, 3378
258	4715, 6002, 6004, 6008-11, 6015, 6022, 6028-29, 7573, 7617, 9086, 89, 9991, 12466, 12482, 14519, 16092-95, 16101, 16113, 16122, 16184.
official travel, per diem allowance rate, increase—	views—
report—	6011, 16113
12181	Government organization manual, 1959-60—
views—	10106
12181	Government organization plans, act of 1949, amend, report—
pay scales and supplementary benefits under Federal classification act, major changes, 1952-58—	8649
3818	Government periodicals, see Periodicals.
political activity, Hatch act operation and enforcement investigation, report—	Government printing and binding, see Public printing and binding.
1529	Government Printing Office:
position classification—	appropriations, 1960, legislative—
principles and operation—	hearings—
7236	8720, 8885
standards—	reports—
2404, 10933	8671, 8869
promotion programs, expansion and improvement—	fireproof annex building, construction, report—
261	6035
reduction in force in Federal agencies—	information for employees—
7243	14766
retired, health insurance program, hearing—	requirements for typing manuscripts to be printed—
16220	9043
salaries, act of 1945, amend—	style manual—
hearing—	abridged edition—
8748	6300
law—	complete edition—
12008	3607
reports—	
8650, 10008	
salary changes, 1955-58—	
8008	
State and local, old-age and survivors insurance, OASI series—	
6874	
State and local governments elective offices, census 1957—	
202	
announcement and order form—	
1460	
State and Territorial income tax withholding regulations—	
6982	
trades and crafts, employment opportunities—	
4389	
training act, include postmasters—	
hearing—	
5934	
law—	
8518	
reports—	
5869, 7587	
travel, per diem allowances, increase, hearings—	
12288	
unemployment compensation appropriations, 1959, law—	
7301	
unemployment insurance eligibility, treat accrued leave in accordance with State laws, report—	
4589	
USDA employee handbook—	
5525	
use of Federal penalty mailing privilege—	
14623	
wage chronology, 1952-58—	
3818	

# JANUARY-DECEMBER

	Entry
Government Printing Office—Con.	
vacancy in office of disbursing officer, provide for issuance of checks, etc.—	
law.....	8516
reports.....	6010, 7377
worker, examination announcement.....	13881
Government programs in international education:	
print additional copies, report.....	4627
report.....	1534
Government property, <i>see</i> Public property.	
Government publications:	
classified list.....	15160
distribution to depository, libraries, revise laws, report.....	4577
facts about education, list.....	5376
for businessmen, secretaries, etc., list.....	15158
helpful suggestions for fall and winter, for sale by Supt. of Documents.....	1145
monthly catalog.....	2892, 11434
popular publications available from Supt. of Documents.....	8182
price lists, Public Documents Division, PL series.....	1146-47, 2109-9, 4016-19, 5377-79, 6904-8, 8184-87, 9458-66, 10560-562, 13554-556, 15161-163, 17031-34, 17824-826
reference volumes, directories, etc., available from Superintendent of Documents.....	4020
relating to small business.....	15164
representative best sellers available from Supt. of Documents.....	6902
selected, list (periodical).....	2893, 11435
State publications, monthly check list.....	2771, 11311
title page and index, 1958.....	9327
top 10 of year indicated by public response.....	13557
<i>see also</i> Congressional documents—Periodicals— <i>also</i> names of departments, etc., issuing publications— <i>also</i> subjects.	
Government regulation and control:	
aspects of Government regulation and union responsibility (remarks).....	5320
internal union affairs affecting rights of members, selected readings.....	3397
Government reorganization plans:	
act of 1949, amend—	
report.....	8631
views.....	8631
act of 1949, extend, report.....	7573
Hoyer Commission reports, action on, 85th Congress, report.....	6004
Interior and Agriculture Depts.—disapproval—	
reports.....	9885
views.....	9885
enacting—	
hearing.....	8911
message from the President.....	7341
reports.....	9885
views.....	9885
Rural Electrification Administration, amend plan 2 of 1939 and 1953—	
hearing.....	5926
minority report.....	5874
reports.....	5874, 6011, 7362
veto.....	7499
views.....	5874, 6011
Government securities, market, Treasury-Federal Reserve study.....	14637, 14646
Government specifications, <i>see</i> Military supplies.	

	Entry
Government supplies:	
coffee for Armed Forces, procurement converted from military to industry.....	5394
Federal item identification guides for supply cataloging. 348-350, 3405 supplements, monthly.....	2484, 11016
supplements, weekly.....	2485, 11017
Federal manual for supply cataloging, operating procedure.....	10237
Federal procurement regulations, FPR circular.....	7842
Federal specifications.....	407, 1628, 3481, 4828, 6167, 7731, 9012, 10111, 12061, 14647, 16350, 17417
index, <i>supp.</i> .....	2598, 11135
standards, and handbooks, index.....	6178
Federal specifications and standards, guide.....	16369
Federal standards.....	6168-69, 9013, 10112, 12662-663, 14648-649, 16351-364, 17416
Federal supply catalog.....	7657, 17368
Federal supply classification handbook—	
alphabetic index Apr. 1959.....	8919
alphabetic index, supplements.....	2488, 11019
groups and classes.....	8918
numeric index.....	12577
addendum.....	2486
supplements.....	2487, 11018
Federal supply code for manufacturers—	
code to name, supplement.....	11021
name to code, supplements.....	2489-90, 11020
Federal supply schedules.....	408-419, 1629-33, 3482-87, 4829-42, 6170-76, 7732-34, 9014-29, 10113-118, 12664-676, 14650-658, 16365-368, 17418-420
check lists.....	2597, 11134
Federal test method standard.....	6177, 10119
Navy current procurement directives.....	11409
Navy procurement directives, revisions.....	2870, 11411
procurement, case problems, hearings.....	8909
procurement handbook.....	4843
special rations for Armed Forces.....	17062
specifications standardization, military manual.....	4770
stores stock catalog, 1959.....	3488, 17422
synopsis of proposed procurement, sales and contract awards.....	2340, 10868
<i>see also</i> Military supplies.	
Governmental Labor Officials, International Association of, <i>see</i> International Association of Governmental Labor Officials.	
Governments:	
census, 1957—	
advance releases.....	3180, 4350
governmental employment.....	203
governmental finances.....	1463, 7192, 13828-829, 15463, 17278
governmental organization.....	202
graphic summary.....	15464
State bulletins.....	11774-801, 13831-851
announcement and order form.....	11771
taxable property values in U.S.....	9705
topical studies.....	5676, 11773, 13830, 15464
Census Bureau publications scheduled.....	13827
China—	
local organs of people's rule.....	562
participation of masses in State organs of Chinese People's Republic.....	561

# INDEX, 1959

	Entry		Entry
<b>Governments—Continued</b>		<b>Grain :</b>	
continuity of State and local governments program to survive nuclear attack	1484	abrasive, on coated abrasive products, grading, standard of trade	13818
county, finances, census of governments, 1957	13829	aeration systems in Corn Belt	15317
Federal, State, local—		bulk grain cargoes, rules and regulations	8489
continuity in case of attack, national plan	4368	chinch bug control	1308
finances, 1958	17282	Commodity Credit Corporation grain, use to prevent crop depredation by waterfowl, make authorization permanent—	
summary	13865	law	13997
problems advisory commission to promote cooperation, etc.—		reports	9872, 12442
hearings	12293	commodity loan and purchase handbook, CSS operating procedure	9751
law	15744	culture, etc., publications, price list	9462
reports	12237, 12482, 12237	feed—	
views	12237	livestock and grain situation, review, hearing	5904
Federal-State cooperation in atomic energy field, selected materials	5786	program, production curbs, etc., hearings	14324
Federal-State relations to American Indian, committee documents and information	4657	foreign agriculture circulars	2643, 11182
print additional copies, report	4572	foreign trade prospects	3522
finances, compendium, 1957 census	15463	futures acts, and other laws, compilation	1511
governmental finances in United States, 1902-1957	4350	Indiana Grain Cooperative, planning for tomorrow	8979
intergovernmental relations in U.S., Federal-State-local, hearings	309, 3325-27	market news—	
local employment in standard metropolitan areas, census 1957	203	quarterly summary and statistics	2207, 10664
announcement and order form	1460	weekly summary and statistics	2207, 10664
municipalities and township, census of governments, 1957	13828	moisture content determinations, testing standards	5502
role in pricing fluid milk	17167	problem ahead, adjusting to overabundance (remarks)	110
State and local effective offices, census 1957	202	production, Soviet abstracts	3730
announcement and order form	1460	sales of CCC stocks to provide food for livestock in emergency areas—	
State and local employee-retirement systems, census of governments, 1957	5676	law	15664
announcement and order form	5674	reports	14320, 14502
State and local finances, 1957, advance releases	8180	sanitation program of Food and Drug Administration	439
Gowan, Patrick W., relief	4514, 8793, 9767	standards, official, handbook	15275
GPO, see Government Printing Office.		statistics, supplement	5555
Grade crossings, see Railroad crossings.		stocks, farms, crop production, quarterly	5489
Grade names used in U.S. standards for farm products	81	stocks of grain in all positions, quarterly report	2265, 10716
Graders, agricultural commodity examination announcement	17300	transportation costs, St. Lawrence Seaway potential effects	5550
Gradients (mathematics):		trade in futures	2425, 10956
arbitrary pressure, charts and tables for estimating stability of compressible laminar boundary layer	9377	transportation costs, St. Lawrence Seaway potential effects	5550
radiosonde temperature, possibility of using data for hydrological computations and forecasts, USSR study	6587	transportation through terminal and storage elevators	9727
streamwise pressure gradient for bodies in high-speed flow, method for computing turbulent heat transfer	5258	world trade under Government programs	7764
Grading of commercial products:		see also names of grains.	
abrasive grain on coated abrasive products, standard of trade	13818	<b>Grain elevators:</b>	
USDA marks, foods on which used	20	cooperative, in Montana	12626
see also names of products.		country	
<b>Graduates:</b>		flaxseed marketing practices and costs	4182
college—		flaxseed storage operations in Minnesota, North Dakota and South Dakota	13732
internal revenue agent career	4954	storage, wheat, cost of shrinkage and grade loss in Kansas	5478
internal revenue officer career	4956	terminal and storage, transportation of grain	9727
women, class of 1957, first jobs	8274	Grainometer, see Leather grainometer.	
women, job experiences	9554	Grand Army of the Republic, Ladies, see Ladies of Grand Army of the Republic.	
fellowship programs authorized by National defense education act of 1958	8947	<b>Grand Canyon National Park:</b>	
		commissioner, appointment—	
		law	14001
		reports	7579, 14297
		general information	6829
		Kaibab Trail trip	17784

# JANUARY-DECEMBER

	Entry
<b>Grand Canyon National Park—Con.</b>	
visitor's guide—	
north rim-----	8130
south rim-----	8129
Grand Cayman Island, weather stations, agreement with Great Britain-----	8236
Grand fir, <i>see</i> Fir.	
Grand Isle, La., aircraft accident-----	1479
Grand Trunk Western R.R., accident-----	10207
Grand Turk Island, Bahamas long range proving ground, tracking station, agreement with Great Britain-----	10599
<b>Granite:</b>	
crushed, methods and practices for producing—	
Campbell Limestone Co., Pickens County, S.C.-----	917
Weston-Brooker Co., Warren County, Ga.-----	5187
explosives, determination of detonation properties-----	17707
Granite City, Ill., all-American city award (address)-----	16639
Granitic soils, <i>see</i> Soils.	
Grant National Memorial, <i>see</i> General Grant National Memorial.	
Grants, N. Mex., aircraft accident-----	7229
<b>Grants-in-aid:</b>	
aging, research and training projects supported by NIH, review-----	5380
air pollution control research—	
hearings-----	12296
law-----	15729
reports-----	6032, 15810, 15928
awarded by N.I.H., 1958, supplement-----	8106
awarded by N.I.H., 1959-----	16947
awarded by Public Health Service, general information and policies, policy information statement-----	6809
cardiovascular research-----	5316, 9403
child welfare services, 1956, statistics-----	15489
crippled children services, 9 State programs, study statistics-----	15486
disaster relief, summary of allocations, report-----	8545
education—	
educational exchange program-----	9505
educational television—	
hearings-----	9914
report-----	4719
funds provided, 1956-57 and 1957-58-----	3414
national defense act of 1958-----	5924, 9908
administration, hearings-----	7670
graduate fellowship program-----	3420
guide-----	7671
student loan program-----	6839
National Science Foundation programs-----	17342
oceanography, hearing-----	15806
State and local agencies, to effect desegregation, report-----	
Federal airport act provisions, extend time—	
hearings-----	3389, 4659
law-----	9792
reports-----	4602, 4712, 5859, 8710
views-----	4602, 4710, 5859
Federal airport funds, make applicable to Alaska and Hawaii—	
hearing-----	12550
law-----	15660
reports-----	12436, 14313, 15809
Federal-State-local relations, hearings-----	3325-3327
fish restoration, quarterly review-----	2610, 11148
health research facilities construction and research projects, 1959-----	15095

	Entry
<b>Grants-in-aid—Continued</b>	
health research facilities construction program, summary of activities, surgeon general's report-----	4454
highway construction—	
financing program—	
address-----	8202
hearings-----	14361, 14557
law-----	15707
reports-----	15876, 15886, 16127
views-----	15876, 16127
progress report-----	4455
rights-of-way, extend time for commencing—	
law-----	8520
reports-----	4623, 7586
highway trust fund proposed provisions-----	15092
interstate highways cost, reimbursement to States—	
hearings-----	12307
Secretary of Commerce proposals-----	7485
juvenile delinquency prevention and control—	
hearings-----	5923, 8720, 10051
report-----	16083
views-----	16083
library service to rural areas, 1958-----	8933
maritime academies or colleges, hearing-----	320
mental health-----	5317, 6811
professional nurse traineeships, 17049-50-----	
research and demonstration projects, supported by Vocational Rehabilitation Office, bibliography-----	13658
research and training, Public Health Service advisory panels, lists of members-----	8102
research in life sciences-----	5336
research in physical sciences-----	13501
schools—	
construction assistance—	
hearings-----	7462, 8905
reports-----	8703, 16186
views-----	8703, 16186
districts affected by Federal activities, amend law, hearings-----	17332
facility funds-----	4774
public health, hearings-----	14344
State elementary and secondary hearings-----	8905
teachers' salaries—	
hearings-----	7462, 8905
report-----	8703
views-----	8703
sewage-treatment works—	
hearings-----	7484, 12567
reports-----	7381, 8664, 14528
views-----	7381, 14528
small business enterprises, law, questions and answers-----	328
specially adapted housing for disabled veterans—	
law-----	14084
reports-----	12219, 14511
transitional grants to Alaska, appropriations, proposal-----	8548
unemployment alleviation by area redevelopment—	
hearings-----	5922, 6049
report-----	5992
views-----	5992
unemployment area, technical assistance—	
hearings-----	4737
report-----	7426
views-----	7426
vocational training for adult Indians, amend act, report-----	16052



# INDEX, 1959

	Entry
Grants-in-aid—Continued	
wildlife restoration projects, Pittman-Robertson activities, 1958, survey.....	10125
Grant's Tomb, <i>see</i> General Grant National Memorial.	
Granuloma inguinale, management in general practice.....	2112
Grapefruit, marsh, quality variations.....	15252
Grapes:	
growing American bunch grapes.....	3057
nursery products, production and sales, 1957 and 1958.....	8286
production, use, value, 1957-58.....	13688
vinifera, table, cold storage.....	9599
Graphic arts, <i>see</i> Art.	
Graphic-locator method in geologic mapping.....	10191
Graphite:	
amorphous, temporary suspension of duty, report.....	15893
in 1958.....	2000
irradiation effects and gas-graphite reaction.....	5650
minerals yearbook chapter.....	14995
production, etc., 1958.....	10437
US/UK conference, held at St. Giles Court, London, Dec. 16-18, 1957.....	5650
Graphotype machine operators examination announcement.....	5734
Grasses:	
culture, etc., publications, price list.....	9462
first book, structure explained for beginners.....	4058
lawn, description, etc.....	15309
salt tolerance.....	82
understory plants of bottomland forests.....	6274
varieties in United States.....	13724
<i>see also</i> Bromegrass.	
Grasshoppers, control with aerosols, USSR experiments.....	7959
<i>see also</i> Melanoplus—Mormon crickets.	
Grasslands, conservation and utilization, modern methods (talk).....	11602
Grauert, Leila B., relief.....	12060
Gravel:	
minerals yearbook chapter.....	17714
plants, safety competition awards, 1958.....	14997
production, etc., 1958.....	5200, 15021
sandy deposits overlying melting ice surface, southeast of Thule, northwest Greenland.....	17381
Gravimeters:	
aerial gravimetric measurements, development of apparatus for conducting research while in motion, USSR study.....	6413
determination of gravity at sea, USSR studies.....	5137
GAK-3 scale, nonlinearity, USSR study.....	1804
quartz, nullpoint creep based on use of elastic properties of twisted thread, new experimental data.....	5138
shifting of null point of SN-3 as result of inclination, USSR observations.....	3689
string, for measurement of gravity at sea description of USSR model.....	12934
Gravimetric analysis, <i>see</i> Chemistry.	
Gravimetry, geodetic, basic problems.	7166
Gravity:	
anomalies determination of depth of body.....	1803

	Entry
Gravity—Continued	
at sea—	
determination by gravimeter, USSR studies.....	5137
string gravimeters for measuring description of USSR model.....	12934
formula for correcting values of force for inclination and acceleration by pendulum apparatus, USSR observations.....	3690
gravimetric data use in determining mass and shape of earth.....	10262
leveling corrections due to force of gravity, Hungarian study.....	3714
nature of gravitational and magnetic anomalies in central and eastern regions of Russian platform, USSR study.....	3696
Sternberg Astronomical Institute fundamental gravimetric station, USSR.....	1808
torque on orbiting vehicle.....	16897
Gravity, specific, <i>see</i> Specific gravity.	
Gravity waves, <i>see</i> Waves.	
Grayling, Mich., land, convey to Michigan, report.....	12241
Grayling, population estimates, Grebe Lake.....	7748
Grazing:	
bunchgrass ranges, rest-rotation management system.....	6238
cattle in longleaf pine forests of south Mississippi.....	3584
Interior Department decisions, 1936-58.....	16671
management studies, Black Mesa research program in southwestern Colorado, report.....	17478
publications, price list.....	6906
Grdjc, Gorjana, relief.....	4697, 8592, 11916
Grease:	
inedible—	
animal fats industry, changes in market production and costs.....	11635
world market survey.....	3179
<i>see also</i> Lubricants.	
Great Basin:	
snow survey measurements, 1919-58.....	6936
surface water supply.....	1715, 9130
Great Britain:	
archives of Allied High Commission for Germany Combined Travel Board, protocol.....	8247
atomic energy, cooperation for mutual defense purposes, agreement—	
hearings.....	12026
reports.....	12160, 12170, 12433
text.....	15215
Bahamas long range proving ground—	
Ascension Island sites, administrative arrangements agreement.....	17125
tracking station, agreement.....	10599
copper industry, production, etc.....	15447
double taxation convention—	
protocol, report.....	12346
protocol, text.....	1205
text.....	4087
east coast of England, sailing directions, change.....	16480
economy, basic data.....	7777
establishing business.....	4877
European and British Commonwealth series.....	2139, 6946-47, 10592, 17087, 17853
foreign relations of U.S., 1941—	
departmental edition.....	9504
document edition.....	8528
import tariff system.....	12718
income taxation.....	14691
lights and fog signals, list.....	9133



# JANUARY-DECEMBER

	Entry		Entry
Great Britain—Continued		Great Plains:	
mutual defense assistance, special		railroad accident.....	16496
program of facilities, agree-		drouth report.....	4011
ment.....	6959	land ownership, preliminary report.....	11599
oil shale and shale oil patents,		northern, home fruit gardens.....	11627
1946-56, index.....	1982	pitting for range improvement.....	112
patent licensing agreements with		wheat improvement program, sum-	
firms.....	1665	mary.....	5559
preparing shipments to United		Great Smoky Mountains National	
Kingdom.....	4880	Park:	
protection of atmosphere, in plan-		general information.....	15114
ning and building of cities,		naturalist program.....	6833
problems.....	7964	8128, 9418, 13491-492, 15115	
research, recently completed stud-		Grebe Lake, grayling population,	
ies, list.....	2148	observations.....	7748
research, studies currently in prog-		Greece:	
ress.....		atomic energy, cooperation for mu-	
bibliography.....	1192	tual defense purposes, agree-	
list.....	13605	ment.....	
technical cooperation program in		hearings.....	12026
British Guiana, agreement.....	17859	reports.....	12155, 12170, 12433
television aspects.....	5929	text.....	17121
weather stations, agreement.....	8236	economy, basic data.....	17442
west coast of England, sailing direc-		establishing business.....	14687
tions.....	14776	exports and imports, licensing	
Great circle calculations by digital		and exchange controls.....	4878
computer.....	16984	import tariff system.....	10156
Great expectations (address).....	13902	imports from Soviet bloc countries.....	7766
Great Lakes:		loan of vessels, agreement.....	17865
climatology and weather services.....	7003	sending gift packages to.....	16410
light list.....	4401	surplus agricultural commodities,	
navigation, rules of road.....	9743	agreement.....	2157
notice to mariners.....	2414, 10945	Green, Aaron, Jr., relief.....	4505, 8795, 9766
pilot, survey.....	6634	Green, Dorothy E., relief.....	7358
St. Lawrence Seaway connecting		Green Bay, Wis., electric facilities	
channels, navigation improve-		of area, map.....	16336
ments agreement with Canada.....	9510	Green manuring, see Legumes.	
small craft, gale and whole gale		Green Peter Dam and Reservoir:	
warning facilities chart, Lakes		change name—	
Huron, Erie and Ontario, 1959.....	8271	report.....	14483
transportation lines.....	8971	views.....	14483
vessels, ocean use—		Greene, Mary W., relief.....	8622
hearing.....	12552	Green County, Pa., coal preparation	
law.....	15680	characteristics.....	3873
reports.....	9983, 12150, 15829	Greenhouses:	
vessels navigating, require pilots—		lettuce growing.....	80
hearings.....	12301	tomatoes, commercial production.....	1301
report.....	12251	Greenland:	
waterborne commerce, 1957.....	1608	air navigation services joint financ-	
Great Lakes Basin, water resources		ing agreement.....	9512
compact, approval, report.....	7565	approach roads, 1955 program.....	12921
Great Lakes Commission, create,		cryoconite of Thule area, research	
report.....	7565	report.....	14603
Great Lakes-St. Lawrence Basin, St.		east, sailing directions, change.....	529
Lawrence Seaway project,		geologic names, index.....	17485
bibliography, supplement.....	15180	Icecap—	
Great Lakes States:		fog whiteout investigations.....	16268
forest insect and disease situation,		visco-elastic properties of snow	
1958.....	7825	and ice.....	17386
forest tree seed crop, 1958.....	14731	SIPRE research program, 1959.....	14601
mine-timber production, effect of		surface reconnaissance of Army	
use of substitutes.....	17463	Transportation Environmental	
principal electric facilities, map.....	16336	Operations Group.....	5446
production of miscellaneous timber		tide tables.....	7249
products, 1958.....	17466	Greenville, Miss.:	
pulpwood production and imports,		Mississippi River harbor improve-	
decline in 1958.....	7831	ments, engineer report—	
seed production areas, establish-		departmental edition.....	10087
ment and management, guide-		document edition.....	9039
lines.....	14724	Grenora, N. Dak., quaternary geology	
veneer log production declined		of area.....	7848
sharply as result of mill		Grewal family, relief.....	9973, 13925, 14125
closures, 1958.....	14733	Greyhound Corporation, Central Grey-	
water resources compact, approval,		hound Lines Division, motor	
report.....	7565	carrier accident investigation.....	3633
Great medical encyclopedia, USSR,		Grignard reagents, decaborane, and	
excerpts.....	9260	formation of substituted decab-	
Great Northern Ry.:		boranes.....	8161
Pioneer and Cascade tunnels, pre-		Grinders, destruction of chrome-plated	
cast concrete supports, design		pieces due to grinding cracks.....	13754
and installation.....	918		

# INDEX, 1959

Entry	Entry
Grinding and polishing: diamond abrasives, use in metallo-graphic problems.....	5365
grinding of loblolly pine, relation of wood properties and grinding conditions to pulp and paper quality.....	1677
techniques for thorium metallography.....	1387
Grinding machines, <i>see</i> Grinders.	
Groceries: marketing, policies and practices of institutional wholesalers.....	9612
wholesale business, Federal wage-hour law application.....	5456
Grocery stores, <i>see</i> Stores.	
Grocery warehouse layout and equipment for maximum productivity.....	11638
Groins (hydraulic engineering), <i>see</i> Jetties.	
Grom, Mary (Marija): relief.....	5965
Gross income, <i>see</i> Income.	
Ground accident abstracts.....	2300, 10752
Ground-cushion phenomenon: hearings.....	8753
reports.....	9839, 9024
Ground fish, <i>see</i> Fish and fisheries.	
Ground instructor, rating, civil aeronautics manual.....	16292
Ground Observer Corps: aircraft flash, official G.O.C. magazine.....	2297, 10749
civilian volunteer members, gratitude and appreciation of Congress, report.....	8659
Ground support equipment, weapon systems, data.....	1359
Ground water, <i>see</i> Water—Water supply.	
Groundfish, <i>see</i> Fish and fisheries.	
Groundwood, <i>see</i> Wood pulp.	
Group appraisal, tool for managerial development.....	1139
Group behavior, human engineering, 1944-58, catalog of technical reports.....	3173
Group creative thinking, what it can do for records officers.....	15090
Group insurance, <i>see</i> Life insurance.	
Grouting, underground methods for nuclear detonations, technical consulting service.....	8416
Growth: children, research programs, studies in progress.....	8466
Douglas-fir, diameter of plantation-grown trees under varying degrees of release.....	10177
growth and inflation (address).....	269
quaking aspen on different soil types.....	9099
GSA, <i>see</i> General Services Administration.	
GTP bulletin.....	9539
Guaba, neutral sulfite semichemical pulping of Inga vera from Puerto Rico.....	1683
Guadalupe River: basin representative on study commission.....	14077
law.....	7581, 14260
reports.....	14260
Guadeloupe Island, weather station, cooperative program, agreement.....	17127
Guam: Federal wage and hour law, general information.....	4119
general information.....	10626
Governor, 1958 report.....	4947
land, acquisition by Navy Dept.—law.....	15679
reports.....	8693, 16161
Guam—Continued motorboat act of 1940, make applicable, report.....	16007
national atlas sheet, topographic mapping status.....	14752
publications, price list.....	8186
suits against, amend organic act—law.....	15681
reports.....	5853, 16159
Guaranties and sureties: bonding of collection agencies in D.C.—law.....	15613
reports.....	7410, 14467
companies acceptable as sureties on Federal bonds.....	9533
Miller act payment bonds, date of statute of limitations for suits—law.....	13998
reports.....	7417, 12457
mutual deposit guarantee funds, tax exemption, report.....	15823
private investments, agreement with—Austria.....	2154
Finland.....	15221
Ghana.....	4078
Malaya.....	9520
Nicaragua.....	10602
Sudan.....	8250
Guardian and ward: appointment of guardian to receive money and property in settlement of actions on behalf of minors in D.C.—law.....	15636
reports.....	14307, 14463
Guards (persons): examination announcements.....	3213, 4381
Guatemala: agricultural production and trade—claim of George B. Soto, hearing.....	8731
import tariff system.....	9074
preparing shipments to.....	10157
sending gift packages to.....	16411
Guay, Omer W., relief.....	9822, 13946, 14394
Guayaquil, Ecuador, weather stations, agreements with Ecuador.....	5432, 17113
Guayule, clipping as method of harvesting for rubber.....	1321
Guglielmi, Sabina, relief.....	14129
Guidance: national defense education act of 1958—administration, hearings.....	5924, 9908
guide.....	3420
training institute program, analysis.....	370
personnel workers preparation program, status.....	4773
programs in secondary schools, evaluation criteria, methods for using.....	369
<i>see also</i> Counselors—Personnel services in education.	
Guide leaflet.....	17784
Guided missilemen, <i>see</i> Missilemen.	
Guided missiles, <i>see</i> Missiles.	
Guinea, <i>see</i> Spanish Guinea.	
Gulf, <i>see</i> name of gulf or place where located.	
Gulf Coast: coast pilot, supp.....	5756
ports.....	8965, 14602
storm warning facilities chart—Morgan City, La., to Apalachicola, Fla.....	2175, 15242
Morgan City, La., to Brownsville, Tex., 1959.....	15243
transportation lines.....	1606
waterborne commerce, 1958.....	10271
Gulf Intracoastal Waterway, <i>see</i> Intracoastal waterway.	
Gulf of Mexico, <i>see</i> Mexico, Gulf of.	

# JANUARY-DECEMBER

	Entry
Gulf States:	
fisheries—	
1957, annual summary-----	1636
1958, annual summary-----	16371
<i>see also</i> Atlantic States.	
Gulfport, Miss., port-----	8965
Gunnery, Naval ordnance and gun-	
nery, fire control, textbook-----	6851
Guns, hypervelocity light-gas, facili-	
ties and instrumentation of	
NRL laboratory-----	8150
Gurman, Eva, relief-----	12081, 15565, 16014
Gust loads, <i>see</i> Load (mechanics).	
Gusts, wing structural deformations	
in rough air of large flexible	
swept-wing airplane, analysis	
of flight-test measurements-----	2048
<i>see also</i> Winds.	
Gutters, cleaners, test results, evalua-	
tion of performance-----	45
Guzy, Leokadia, <i>see</i> Jomboski, Leoka-	
dia.	
Gymnodinium brevis:	
counts of red tide organisms and	
associated oceanographic data	
from Florida west coast, 1954-	
57-----	12688
red tide organism, large scale ex-	
perimental test of copper sul-	
fate as control method-----	6197
Gynecologists, joint plenum, USSR	
study-----	17655
Gypsum:	
and products—	
production, etc., 1958-----	13351
quarterly reports-----	2807, 11351
deposits, Iowa, mining methods and	
costs-----	13321
minerals yearbook chapter-----	14996
<i>see also</i> Plaster.	
Gypsy moths, general information-----	16429
Gyro compass, <i>see</i> Gyrocompass.	
Gyrocompass, gyro-horizon compass,	
theory-----	13761
Gyroscopes:	
theory of—	
double-gyroscopic vertical-----	6796
2-gyroscope vertical-----	13772

## H

H.E.W., <i>see</i> Health, Education, and	
Welfare Department.	
H.H.F.A., <i>see</i> Housing and Home	
Finance Agency.	
H.O. publications-----	527-530, 1718-24,
2668, 3609-17, 4935-42, 6307-	
13, 7865-68, 9133-35, 11207,	
12778-79, 16477-482, 17497-503	
H.S.S. series-----	915, 8026,
13310-312, 14997, 16693	
Habeas corpus:	
applications, amend U.S. Code—	
hearings-----	9916
reports-----	9853, 12173
Hachtmann, Kenzo, relief-----	12372, 13959,
14152	
Hackberry, silvical characteristics-----	3556
Haddock, eviscerated, frozen in	
sodium chloride brine, salt	
content-----	7742
Hafnium:	
mineral market report-----	938
minerals yearbook chapter-----	13377
Mines Bureau research program,	
1960-----	13324
zirconium and hafnium in south-	
eastern Atlantic States-----	514
zirconium separation-----	16723
Hall, preventing, modern possibili-	
ties-----	812
Haines, Alaska, aircraft accident-----	15500
Haischer, Francis M., relief-----	4476
Haiti:	
Air Force mission, agreement-----	8249
education-----	17373
naval mission, agreement-----	4096

	Entry
Haiti—Continued	
temporary military training unit	
drawn from Marine Corps,	
agreement-----	2155
Hale, Yukie A., relief-----	8502
Half century of research, Fort Valley	
Experimental Forest, 1908-	
1958-----	1697
Hallbut:	
method of removing blood to im-	
prove appearance of frozen	
steaks-----	1639
Pacific fishery regulations-----	6330
memorandum-----	6329
notice-----	10202-203
Hallm, Mohammed A., relief-----	5953,
8590, 9768	
Hall, Clara H., relief-----	8563, 13987, 14412
Hall, Oather S., relief-----	4482, 12390, 13935
Hallahan, William J., nomination,	
hearing-----	7609
Hamel, Minn., railroad accident-----	1737
Hamilton Farm Bureau Cooperative,	
integrated operations-----	8977
Hampton Roads, Va., tide calendars-----	2670,
11209	
Hand cleaners, <i>see</i> Soap.	
Hand tools:	
Federal item identification guides	
for supply cataloging-----	348
industry outlook for 1959 and re-	
view of 1958-----	1455
power driven, Federal supply sched-	
ule-----	12666
Handbooks, land treatment meas-	
ures-----	12739
<i>see also</i> names of departments, etc.,	
issuing handbooks—also sub-	
jects.	
Handicapped:	
employment—	
facts for employers-----	13282
not on job! physically handi-	
capped worker in VA-----	6998
equality, program guide, 1959-60-----	13281
limitation of activity and mobil-	
ity due to chronic conditions,	
U.S., July 1957-June 1958,	
statistics-----	15168
performance, story of the handi-	
capped-----	2731, 11268
persons, employment under Fair	
labor standards act-----	1224, 15237
President's Committee on Employ-	
ment of the Physically Handi-	
capped, minutes of meetings,	
1959-----	16655
Handicraft, producer cooperatives,	
how different from production	
teams and producer coopera-	
tives in North Vietnam-----	4967
Handling conditions and practices	
causing bruises in cattle-----	13729
Handling equipment:	
deciduous fruit in bulk boxes-----	44
maintenance handbook-----	17131
weight, installation at naval shore	
activities-----	13672
Handwheels, ordnance, use of cellular	
plastisol for coatings-----	10551
Hanford Atomic Products Operation,	
coextruded Zircaloy-clad full	
elements with integral end	
seals, development and prop-	
erties-----	15410
Hannay, Edmund A., relief-----	12354,
13952, 14136	
Hanol, Vietnam, articles-----	6537
Hansen's disease, <i>see</i> Leprosy.	
Harbor craft, crewman's handbook,	
technical manual-----	3150
Harbor workers, <i>see</i> Longshoremen.	
Harbors:	
Atlantic Coast, commerce, 1957-	
customs, code classification, sched-	
ule D changes-----	8461

# INDEX, 1959

	Entry		Entry
Harbors—Continued		Harvesting, methods, corn crop, 1956	8290
Great Lakes, commerce, 1957	1608	Harvesting machinery, suction reclaimer for shattered seed	7033
nautical charts, status, national atlas sheet	11857	Hastings, Earl F., nomination, hearing	7609
Pacific Coast, Alaska, and Pacific Islands commerce, 1957	1609	Hastings-Raydist, Inc., Government procurement, problems	8900
public works for navigation, etc.—hearings	12308	Hatch act operation and enforcement investigation, report	1529
reports	8712, 12174	Hatch political activities act, see Politics.	
veto (S. 497), analysis	7481	Hatcheries, see Chickens—Fish and fisheries—Poultry—Turkeys.	
see also names of harbors or places where located.		Hawaii:	
Hard-of-hearing, see Deaf.		airmen's guide	2512, 11045
Hard problems and soft hearts	10108	notices to airmen	11044
Hard wheat, see Wheat.		canned fish and byproducts, annual summary	6187
Hard woods, see Hardwoods.		census of governments, 1957, State bulletin	13851
Hardboard, see Pulpboard.		climatological data	2993, 11546
Hardening of arteries, see Arteriosclerosis.		coast pilot	13898
Hardness, testing, titanium sponge, equipment and procedure	3876	conservation for Hawaii and Nation (talk)	4063
Hardware, Federal supply schedule	16385	fetal deaths, 1957, national summaries	16960
Hardwoods:		fruit fly control with poisoned-bait sprays	42
appalachian, heart rots	7814	gasoline, jet fuel, etc., service-station deliveries, Federal supply schedule	419
bottomland, southern New Jersey, natural regeneration	17473	general information	1215, 6976, 9531
cull trees and weed species, control stands	1699	Governor, report, 1958	4948
doors, veneered, standards of trade	7169	include in distribution of discretionary funds under Federal airport act—	
growth on old-field sites, comparison with conifers	477	law	15660
northern—		reports	12436, 14313, 15809
heavy thinning increases tree size and yield in upper Michigan	14726	infant mortality, 1957	16959
New England, management guide	6263	information, government publications list	15159
sugar maple and yellow birch seed dispersal, Upper Peninsula of Michigan	14727	interstate highway extension, study, law	15707
Ozark, treating with 2, 4, 5-T	10184	light list	4406
pallet manufacturing	6250	lights and fog signals, list	3609, 7865, 14769, 16477
partial conversion of poor stands to conifers by planting	7811	mail routes, schedule	15151
plywood—		marriages and divorces, 1957	9413
facts for industry	2372, 10903, 13860	marriages, divorces and annulments, 1957	9412
industry, outlook for 1959 and review of 1958	1421	maternal mortality, 1957	16958
report on escape-clause investigation	10611	military personnel of U.S., helpful hints, DA pamphlet	163
recovering from drought	6275	mineral industry, minerals year-book chapter	16707
response to low thinning on poorly drained sites	17472	Molokai project, report of Interior Dept	298
sampling quality of growing stock	12742	mortality data, 1957, national summaries	10522
scrub, deadening livens up forage	3586	natality, 1957, national summaries	16961
southern—		national atlas sheet	
canker rots	4899	aerial mosaics status	14750
decay after fire injury	3082	aerial photography status	14751
unaffected by benzole acid	16451	topographic mapping status	14752
upland—		Nene goose research, propagation, and management program, hearings	317
cutting practice demonstration	14712	principal electric facilities, map	16342
growth in southern Indiana	7810	publications, price list	8186
wet site survival and growth	17479	radio facility charts, dates of latest prints	2409, 10938
Hardy Manufacturing Corp., claim	14200	selenium content of volcanic rocks	12764A
Harkins, Thomas L., relief	12385, 13955, 14180	statehood—	
Harkins, William J., relief	12385, 13955, 14180	hearings	4654, 4744
Harlan County Dam, soils design, construction, and performance observations, review	8974	law	5777
Harmonic analysis:		reports	4548, 4725, 5842
and prediction of tides, manual	3244	statehood commemorative stamp (poster)	13545
application of Tebechev form to calculate zero-lift wave drag	17723	storm warning facilities chart, 1958	13661
Harolan, Helen, relief	9951	tide tables	4398
Harper, Horace W., nomination, hearing	16217	tuna fish, age determination	7749
Harrison, Maxine L. C., relief	4525		
Harrison County, Miss., shore protection, beach fill and borrow channel area, suitability	8967		
Harry S. Truman Library, general information	13452		



# JANUARY-DECEMBER

	Entry
Hawaii—Continued	
volcanoes, quarterly summary	2655
women—	
labor laws	13668
legal status	17164
Hawaiian and Pacific Islands, light list	4406
Hawaiian Islands, see Hawaii.	
Hawaiian Volcano Observatory, summary	2655
Hawkins County, Tenn., forest inventory statistics	13643
Hay:	
harvesting from conservation reserve acreage—	
hearings	15935
reports	14501, 15861
shed, for self feeding, farm building plan	106
Haydite, see Shale.	
Hays, Brooks:	
complaints concerning irregularities in election of Dale Alford—	
hearings	3321, 14339
report	15914
Head:	
injuries, neurosurgery in World War II	1373
irradiation by gamma rays, dosimetry, USSR studies	6441
Headsets, microphone kit, operation and organizational maintenance, technical manual	17246
Healing of fractures during various stages of radiation disease, USSR	1768
Health:	
aged, problems—	
expert view summary	16216
hearings	12561
Air Force, unit training standard, AF manual	5571
amendments act of 1956, amend—	
hearings	14344
law	11992
report	12118
atomic power plants, problems connected with work, USSR study	13156
children and youth, selected characteristics, statistics, July 1957—June 1958	17829
code of Federal regulations	4820
community air pollution, research challenge	8188
dental, commemorative stamp (poster)	13542
development of Moscow public health network, prospects for 1959-65	10386
East Germany	6510, 10284, 13042, 13126, 14869
special report	13029
health and safety statistics, HSS series	915, 8026, 13310-312, 14997, 16693
health information series	1149, 8190-92, 9468-70, 10563-566, 17041-43
hygiene problems, forty years of Soviet sanitary bacteriology	7962
ICA health summary	2886, 11226
Indians—	
Aberdeen, S. Dak. area reservations program	13563
dentistry work by PHS	15169
health program, progress report	6914
questions and answers	16483
industrial workers, publications, price list	9465

	Entry
Health—Continued	
international—	
mobilize scientists, etc., in U.S. and abroad, hearings	7642
research act of 1959—	
hearings	7642, 15949
report	7577
international programs—	
status of world health in outline text and chart	6029, 6062
United States and World Health Organization report	8891
United States participation, study—	
expenses, report	16088
extension, report	3364
international research, background materials, compilation, report	6028
manpower source book	15167
maternal and child health services—	
1956 statistics	15491
1957 statistics	15495
meeting community health needs under hospital survey and construction program	5382
national survey—	
impairments by type, sex, age, statistics, 1957-58	10567
interviewers manual	8460
statistics	2111, 4021, 6912, 10567-568, 15168, 17829
observations on acclimatization of man on ice floes in North Arctic Ocean	12866
occupational—	
experience and practices in uranium industry, symposium	17251
hazards evaluation and control	879
local health officer's role	8193
problems in powder metal handling, protection experience in beryllium facilities, 10 years summary	4317
public—	
Azerbaijdzhan SSR, immediate problems	16610
care in China	6500
effect of discharges from exhausts of motor vehicles, Surgeon General to study, report	14214
Kazakh SSR, development	13242
local workers salaries	6916
mental health consultations and concepts, application in social work	5718
Moldavia SSR, development	12987
New China, advances	12966
organization, Byelorussian SSR	12955
organization, Rumanian People's Republic	5043
personnel training, increase scope, hearings	14344
personnel training, stimulate, continue program—	
law	11992
report	12118
perspectives of development in Uzbek SSR	12971
professional personnel graduate training program, extend—	
hearings	14344
report	8870
progress in USSR and goals for future	12965
public health bibliography series	6915, 9472, 17051-53, 17831
public health engineering abstracts	2897, 11439
index, 1958	5384
public health in Turkmen SSR, book review	16625
public health monograph series	2115, 4026, 15171, 17054, 17832
index, no. 51-55	2898

# INDEX, 1959

	Entry		Entry
<b>Health—Continued</b>		<b>Health, Education, and Welfare Department—Continued</b>	
public—continued		study of hospitalization insurance for old-age survivors, and disability insurance beneficiaries, report.....	8763
public health nursing service to patients.....	17054	<b>Health insurance:</b>	
public health reports.....	2898, 11440	collective bargaining plans, accident and sickness benefits—	
index, 1958.....	2898	departmental edition.....	14973
reprints.....	4027, 13565	document edition.....	14109
research activity by Institute for Hygiene, Bucharest, Rumania in 1956.....	860	program for Federal employees—	
Soviet and 21st congress of CPSU, USSR study.....	10373	hearings.....	8908, 14348
Soviet 40 years achievements.....	14818	law.....	15746
Soviet health during war years.....	1941	reports.....	12410, 15807
Soviet impressions of U.S. Public Health Mission.....	8198	views.....	12410
Soviet medical science in service.....	816	program for retired Federal employees, hearing.....	16220
Soviet rural health, next tasks.....	12973	selected plans under collective bargaining—	
State workers, salaries.....	5385	changes, 1954–58.....	5175
tetraethyl lead in motor fuel, hazards of increasing content.....	17830	digest—	
USSR program, information.....	721, 5076	departmental edition.....	5169
publications, price list.....	15161	document edition.....	4430
regulations, ship repairing, proposals.....	10401	<b>Health officers, local, opportunities offered by occupational health—</b>	<b>8193</b>
research, statutory authority.....	4741	<b>Health Organization, Pan American, see Pan American Health Organization.</b>	
research, facilities construction, etc., grants by NIH.....	15095	<b>Health physics, see Physics.</b>	
research facilities construction program, summary of activities, surgeon general's report.....	4454	<b>Healthier livestock and poultry, talk.....</b>	<b>13715</b>
services, research relating to children, studies in progress.....	8466	<b>Hearing:</b>	
status of research by Central Institute of Health in China.....	6402	auditory research and tests, 1932–58, catalog of technical reports.....	4341
technical cooperation achievements of ICA.....	17086	auditory research discrimination phase, interim report.....	2083
uranium fuel fabrication facilities, using your community's health resources.....	1161	auditory sensitivity of workers in radar stations, USSR study.....	12929
USSR—		<i>see also</i> Deaf.	
protection improvement.....	13245	<b>Hearing defects, see Deaf.</b>	
statistics of populace.....	10331	<b>Hearings:</b>	
voluntary agencies, research and development expenditures, 1957.....	16971	congressional committees—	
<i>see also</i> Medical care—Medicine—Mental health.		Jan. 3, 1935–Jan. 3, 1959, index, through 67th Congress, checklist.....	13303
<b>Health and Medical Research Year, see International Public Health and Medical Research Year.</b>		<b>Heart:</b>	
<b>Health and Safety Laboratory, AEC, strontium program, quarterly reports.....</b>	<b>4313, 8398</b>	acupuncture effect on cardiac action of dog, Chinese study.....	10261
<b>Health boards and departments:</b>		cardiac activity during radial acceleration, USSR study.....	12930
directory of local health units, 1958.....	6911	functional changes in internal irradiation by radioactive phosphorus, USSR studies.....	6444
directory of State and territorial authorities, 1959.....	13559	roentgen kymography in acute experimental radiation sickness.....	825
full-time local services, organization and staffing.....	1152, 13564	sensitivity to cardiac glucosides in radiation sickness, USSR studies.....	1866
State and territorial, conference with Public Health Service and Children's Bureau, 1958 proceedings.....	5383	<b>Heart diseases:</b>	
<b>Health centers, meeting community health needs under hospital survey and construction program.....</b>	<b>5382</b>	death rates by age, color, and sex, 1949–51—	
<b>Health, Education, and Welfare Department:</b>		arteriosclerotic.....	15101
administer commodity distribution program, hearings.....	10021	chronic rheumatic.....	15100
appropriations, 1960—		diseases of heart.....	8116
hearings.....	5912–13, 7447–48, 8884	hypertension with heart disease.....	15103
law.....	14013	nonrheumatic chronic endocarditis and other myocardial degeneration.....	15102
reports.....	7392, 9999, 12229	other diseases of heart.....	13471
directory, field.....	6301	program development and research studies, 1958 highlights.....	15093
directory, regional office, professional and administrative personnel.....	524	<b>Heart Institute, see National Heart Institute.</b>	
releases.....	2664, 11203	<b>Heart River:</b>	
report, 1958.....	7864	Edward Arthur Patterson Lake, designating—	
		law.....	14040
		reports.....	6033, 12232
		<b>Heart rot, appalachian hardwoods.....</b>	<b>7814</b>
		<b>Heat:</b>	
		addition to 2-dimensional, supersonic, linearized flow, analysis of theory.....	3922

Heat—Continued	Entry
balance method for determination of total evaporation of agricultural fields, USSR study...	6581
EI437 alloy resistance, plastic deformation effect, USSR studies	1926
heat power engineering (USSR periodical), abstracts...	8436, 10800
leakage through floors, etc. of apple storages, study	17198
loss calculations in buildings and houses	16322
metallography and heat treatment of metals (USSR periodical), abstracts	10829
resistant organosilicate dielectrics	9252
stability of horizontal fluid layer with unsteady heating from below and time-dependent body force	17765
supersonic underwing addition, analysis and evaluation	8077
supersonic vehicles, performance and heating problems	6693
thermal balances of reverberatory furnace of Krasnoural'sk Copper-Smelting Combine	10209
thermal conditions of warm soil, computation of elements, USSR study	5150
thermal resistance of bacterial spores, substances screened for ability to reduce	17186
thermal separation of gas mixtures by adsorption method, theory, USSR study	13276
see also Heat transfer—Temperature—Thermochemistry.	
Heat exchangers:	
coking of JP-4 fuels in electrically heated metal tubes	1011
core dimensions, with 1 dominating film resistance, determining, etc	3903
see also Retorts.	
Heat of formation:	
crystalline cadmium and lead metasilicates data	8049
lanthanum chloride, lanthanum sulfate, and lanthanum sulfate ennehydrate	5207
Heat of polymerization, relationship of polymer structure deterioration of adhesive bonds in metal joints	13451
Heat transfer:	
aerodynamic—	
bodies at angles of attack	16853
boundary layer solutions of equations with transpiration applicable to stagnation regions of axisymmetric blunt bodies	13446
cooling associated with large-scale vortical motions in supersonic flow, initial experiments	6688
determination from free flight investigation of rocket propelled model	1075, 2051
effects of external combustion in airstream below 2-dimensional supersonic wing at Mach 2.5 and 3.0	5263
heating analysis of ballistic missiles entering earth's surface at high supersonic speeds	6682
heating data determined from free-flight rocket-model test to Mach number 3.64	16836
heating data obtained from free flight tests between Mach numbers 1 and 5	10478

Heat transfer—Continued	Entry
aerodynamic—continued	
heating, methods for reducing in supersonic flight, discussion	16752
hemisphere cylinder in free flight, measurements	16850
highly polished hemisphere-cylinder, free-flight investigation	16852
hypersonic flight	13450
ignition temperatures of solid metals, investigation	17758
laminar, rates on yawed infinite cylinders in supersonic flow, theoretical investigation	13416
long-range hypervelocity vehicles, performance	10466
measurement to deflected trailing edge flap on delta fin in free flight at Mach numbers from 1.5 to 2.6	10486
multiweb wing structures heated in free jet, tested at Mach no. 2, etc.	1076-77
parameters for flat plate at hypersonic speeds in terms of free-stream flow properties	16869
reversible heat addition theory, application to fluid dynamics	17745
rocket-powered research vehicles at hypersonic speeds	17728
shock-tube measurements on inner surface of cylinder	16892
transpiration cooling on 8° cone in free jet at Mach number 2.05	1030
turbine blades, effect of thermal shock induced by external water-spray cooling	1006
turbulent incompressible boundary layer	1086, 1089, 2047, 2049
air film cooling applied to adiabatic wall by means of axially discharging slot	13444
and friction measurements with variable properties for airflow normal to finned and unfinned tube banks	1081
at hypersonic speeds, effects of boundary layer displacement and leading edge bluntness, errata	8074
boundary layer effects in laminar hypersonic flows in pressure gradient	10408
ceramic coatings with high reflectivities and emissivities for use in aircraft power plants	15361
characteristics, nozzles having radial flow in divergent part	3918
charts and tables for estimating stability of compressible laminar boundary layer	9377
coefficients—	
distribution effect on torsional stiffness of thin wings	5276
measurements for helium flowing in tube at surface temperatures up to 5900° R	17755
compressible laminar boundary layer, over yawed infinite cylinder	8068
condensation and boiling	15397
cooling, corrugated-insert turbine blade with cast shell and base, performance and structural reliability	5244
cylinders in transition from slip flow to free-molecule flow	8087
dihedral influence on leading edges of highly swept wings at high Mach numbers	6782

# INDEX, 1959

Entry	Entry
Heat transfer—Continued	Heat transfer—Continued
effects of—	turbulence and temperature fluctuations behind heated grid, errata..... 9362
boundary layer transition to yawed cylinder in supersonic flow..... 16835	turbulent and laminar measurements on NACA RM-10 missile in free flight..... 15066
chordwise conduction on torsional stiffness of diamond-shaped wing subjected to constant heat input..... 16883	turbulent in presence of steamwise pressure gradient for bodies in high-speed flow, method for computing..... 5258
surface cooling in presence of roughness on boundary layer transition..... 17736	turbulent surface finishes, rate to series of 20° comes at Mach numbers of 4.95..... 9384
exploratory materials and missile-nose-shape tests in 4,000° supersonic air jet..... 16842	unsteady stagnation-point..... 16963
formulas to determine transient temperature of thick walls with arbitrary time variation..... 16743	unsteady vaporization near stagnation point of blunt bodies..... 16885
full-scale double-shroud ejector configurations over range of primary gas temperatures, performance..... 17724	uranium dioxide fuel materials with improved thermal conductivity..... 11736
gas-to-blades, and turbine heat-rejection rates for cooled-turbine engine designs..... 17725	yaw effect, circular cylinders in hypersonic flow..... 16750
gas-turbine blades, effect of coolant-passage diameter on natural convection water cooling..... 1007	Heaters, regenerative air preheaters, further corrosion tests on materials..... 9353
heat transfer and thermal stresses in sandwich panels, errata..... 6751	see also Unit heaters—Water heaters.
horizontal cylinder rotating in oil in liquid metal turbulently flowing, solution with step function boundary temperature..... 8086	Heating:
laminar—	aerodynamic—
coefficients for front half of swept circular cylinders at Mach number 6.9, investigation..... 13415	ballistic missiles, simulation of atmospheric entry..... 16763
compressible boundary layer showing effects of upstream transpiration cooling, some finite difference solutions..... 3936	behavior of several materials in supersonic air jet at 4000°F..... 16857A
equation, solution that permits complete machine calculations from transient temperature measurements..... 9383	data obtained from free-flight tests between Mach numbers 1 and 5..... 10478
local, measurements on 2-inch-diameter blunt bodies..... 5259	electrodes for electric-arc wind tunnel, preliminary development..... 6793
low Prandtl number boundary-layer solution for forced and free convection..... 5294	heating and fatigue of aircraft structures..... 10504
measurements of total hemispherical emissivity of oxidized metals and refractory oxide coatings..... 3926	hemisphere cylinder in free flight, measurements..... 16850
method of reducing to blunt bodies by air injection..... 13423	highly polished hemisphere-cylinder, free-flight investigation..... 16852
natural convection inside flat rotating container, errata..... 5257	hypersonic boost-glide aircraft, design aspects..... 16751
natural-convection water-cooling of gas-turbine blades, effect of blade-tip crossover passages..... 1008	Nike-Cayun (CAN) rocket..... 15070
nickel-titanium carbide cemented hard metals, total hemispherical emissivity measurements..... 9381	structural temperatures at supersonic speeds, flight measurements..... 15057
periodic flow in stratified medium with application to permafrost problems..... 16462	temperature distribution behind cylinders in flow..... 15087
problems during change of state of heat carrier..... 1376	rates for logs, bolts, and flitches to be cut into veneer..... 17455
propellants, rocket engine experiments..... 3946	space, nuclear reactors use, literature search..... 17263
transition location effect and prediction in known transition region..... 1089	supplementary radiator for heating PBK-50 pressure chamber, USSR study..... 12931
transpiration-cooled strut-supported turbine rotor blades, design..... 16790	see also Electric heating.
turbine blades, cooling and durability data of improved designs..... 993	Heating apparatus and supplies: facts for industry..... 2571, 10902, 13861
turbojet engine, external water-spray cooling, use of injection configurations..... 3894	Metalworking Equipment Division activities (address)..... 7172
	see also Heaters.
	Heavy water, power reactors, D <sub>2</sub> O-moderated, symposium..... 15427
	Heavy water reactors, see Reactors (atomic).
	Hebgen Lake, earthquakes, 1959..... 15540
	Hel-lung Chiang River, see Amur River and Valley.
	Hellungkiang Province, China: economic geography of Ussuri River basin..... 9184
	people's council, work report..... 9215
	work report, 1958..... 14904
	Held, Colbert C., relief..... 8564, 13947, 14395
	Heleldae, see Flies.
	Helicopter technicians, on-the-job training package..... 17226
	Helicopters:
	and other aircraft, whaling regulation convention, text..... 10607



# JANUARY-DECEMBER

	Entry		Entry
Helicopters—Continued		Heliports—Continued	
agricultural equipment, USSR		District of Columbia, commission-	
study	7925	ers to study reports	12259, 12404
certificated, accident statistics	11822	flexible-pavement design, engineer-	
certification and operation rules,		ing manual	1602
civil aeronautics manual	16290	rigid and overlay pavement design,	
compressibility effect on hovering		engineering manual	12608
performance of two 10-foot-		Helium:	
diameter rotors tested in Lang-		air-helium simulation and hyperson-	
ley full-scale tunnel	10489	ic approximations	16889
crash-fire problem, analysis	7700	coolant for return-flow turbine ro-	
fire detection and resistance, studies		tor blade, analysis of flow and	
of Sikorsky H-5A	9479	pressure requirements	6722
handling qualities during both in-		flow, fluid-dynamic properties of	
strument and visual flight, ef-		sharp and blunt-nosed shapes	
fects of various combinations		at Mach numbers from 16 to	
of damping and control pow-		24	10494
er	17738	flowing in tube at surface tempera-	
heliport location and construction	17476	tures up to 5900° R, measure-	
hovering rotors, pressure fluctua-		ments of heat transfer and	
tions in slip-stream, investi-		friction coefficients	17735
gation	16916	minerals yearbook chapter	14998
performance calculation at high		natural gases, analyses, etc.	1983
tip-speed ratios, rotor theory	16910	polarization of neutrons from	
rotor blades—		D(d,n) He-3 reaction	15398
bending moments and flapping		shock waves, hydrodynamic calcu-	
angles, effect of flapping-hinge		lations	3986
offset	6775	Helsinki University Library, Russian	
effects of sharp-edge vertical gust		periodicals, checklist	8019
on flapping angles and bending		Helsipoint location and construction	17476
moments	16877	Hematopoiesis, see Blood.	
effects of transition, landing ap-		Hematopoietic tissues, see Tissues.	
proaches, etc., on bending and		Hemiptera, see Coccinellidae.	
torsional moments	8089	Hemisphere, Northern:	
interference-induced velocities		daily synoptic weather maps	2985,
study	9532		2995, 11548
removals, study	6980	precaculation of pressure in mid-	
self-excited mechanical oscilla-		dle troposphere, USSR study	7939
tions	2017	upper wind distribution statistical	
errata	5215	parameter estimates	4124
teetering, comparison of meas-		Hemisphere, Western:	
ured bending moments with		files of genus Odinia	9408
pressure distribution	5293	trade corporations, taxation con-	
rotor hubs, parasite-drag measure-		cession	6221
ments	3930	Hemlock:	
rotors—		extracts, decoctions, and prepara-	
behavior under extreme operating		tions suitable for tanning, tem-	
conditions, wind-tunnel investi-		porary free importation—	
gations	3921	law	15653
calculated and measured stall		reports	14255, 14524
boundaries at advance ratios		mountain, silvical characteristics	4914
from 0.3 to 0.4	16900	Hemlock sawfly, see Flies.	
coupled natural frequencies and		Hemoglobin, reversible addition of	
mode shapes of dynamic model,		oxygen, USSR studies	5036
analytical determination	1083	Hemolymph coagulation in neotro-	
determination of normal compo-		pical insects, distribution of pat-	
nent of induced velocity in flow		terns	15191
field and method for utilizing		Hemolysis and hemolysins, hemo-	
information to study interfer-		lytic diseases of newborn,	
ence induced velocities	9532	treatment and prophylaxis	793
having NACA 64.A012 airfoil		Hemorrhage, irradiated dogs, restora-	
section, lift coefficient charac-		tion of protein serums,	
teristics at low tip Mach num-		USSR study	6591
bers	5270	Hemorrhagic fevers:	
scheduled air carrier certification		Asian type, epidemiological and	
and operation rules, civil air		clinical characteristics	864
regulations amendments	7694,	general information, USSR studies	6456
	17398	viral, USSR study	6394
technician, Air Force, on-the-job		Hemorrhoids, description, etc.	9468
training package	17226	Hemotherapy, efficacy in radiation	
vibration, hygienic evaluation,		sickness, USSR studies	10368
USSR study	12976	Henderson, Tenn.:	
vibration in transition, vortex-ring		Bethel Baptist Church land con-	
state, etc., flight measure-		veyance—	
ments	1097	law	15621
weight and load computer	17882	reports	9979, 14131
Hellomycin, new antiviral antibiotic,		Henderson County, Tenn., forest in-	
USSR studies	6437	ventory statistics	13644, 17880
Heliports:		Henke, Orville J., relief	14173
Army, engineering and design man-		Hepatitis:	
ual	12607	description, etc.	17043
day marker, technical standard or-	10099	viral, clinical and public health	
		aspects, practical guide	8200
		Herald of communications (USSR	
		periodical), abstracts	8437, 10801

# INDEX, 1959

	Entry
Herald of electrical industry (USSR periodical), abstracts.....	10802
Herald of Leningrad University, physics, and chemistry series, abstracts.....	10803
Herald of machine building (USSR periodical), abstracts.....	10804
Herald of Moscow University, physico-mathematical and natural sciences series, abstracts.....	10805
Herald of roentgenology and radiology (Soviet periodical), editorial.....	10375
Herbicides:	
downy brome control.....	7069
effects on fish and wildlife, continue studies—	
hearings.....	317
law.....	15644
reports.....	14488, 15816
effects on some brush species, southwestern Oregon.....	7834
plans to increase use in USSR agriculture.....	14865
Heredity:	
genetics of microorganisms and present-day views, USSR study.....	14955
human, problems, USSR study.....	873
material basis theory, philosophical problems, USSR study.....	16603
microorganisms, role of nucleic acids, USSR study.....	6485
see also Genetics—Variation (biology).	
Heritage of freedom.....	8496
Hermite, Raul, J. J., relief.....	16011
Hernia, death rates, by age, color, and sex, 1949-51.....	15105
Heroin, protective action on embryos of white mice in total irradiation of mother.....	13252
Herter, Christian A., nomination, hearing.....	7613
HEW, see Health, Education, and Welfare Department.	
Hexaborides, see Lanthanum hexaboride.	
Hexane, dehydrogenation under conditions of aromatization, temperature and volume rate effect, USSR studies.....	1910
HHFA, see Housing and Home Finance Agency.	
Hickory:	
hickory task force report.....	6270
trees, logs, and products, grading and measuring.....	6270
Hickory Run State Park, Pa.:	
deer enclosure, history, etc.....	17459
deer enclosure, history, etc.....	17467
Hicks, Albert J., relief.....	8626, 11937, 12357
Hides and skins, see Leather, hides and skins.	
Higa, Masako, relief.....	7526, 8602, 11908
Higa, Saeko, relief.....	7526, 8602, 11908
High-altitude performance—	
tubular prevaporizing combustor.....	886
turbojet combustor having variable primary-air admission.....	13402
High-current grid-controlled electron multiplier tube.....	13514
High frontal zones, see Meteorology.	
High school pupils, see Youth.	
High school students, see Students.	
High schools:	
American, English language arts curriculum.....	3413
curriculum organization patterns and graduation requirements in 50 large cities.....	10077
enrollment, teachers, school housing, fall 1958, statistics.....	3419
Federal grants to States, hearings.....	8905

	Entry
High schools—Continued	
foreign languages in secondary schools, prereading instructions.....	8940
laboratory experiments with radioisotopes for science demonstrations.....	196
mathematics books for secondary school students.....	8943
national stay-in-school campaign, memo to employers.....	16654
secondary schools individual analysis in educational and vocational guidance.....	1591
selected science services, secondary schools, aids for teaching.....	12594
see also Secondary education.	
High-seas fisheries of U.S.S.R.....	7751
High-temperature lubricants from aromatic alds and fluoroalcohols.....	3991
Higher Certification Commission on Scientific Ranks and Titles (USSR), decisions.....	744-745, 695-697, 1841-42
Higher education, see Colleges and universities.	
Highland Falls, N.Y., water filtration plant construction, additional funds, report.....	8656
Highlighting heart H in 4-H, guide for leaders.....	13737
Highlights of heart progress, 1958.....	15093
Highlights of progress in mental health research.....	9402
Highway bridges, see Bridges.	
Highway machinery, see Road machinery.	
Highway motor vehicles, see Motor vehicles.	
Highway safety, see Safety of life.	
Highways, see Roads and highways.	
Hill, Jim B., relief.....	4521, 8787, 9762
Hingham, Mass., Naval Ammunition Depot, closing, investigation, report.....	16190
Hired farm workers, see Farm labor.	
Hired truck transportation in marketing livestock.....	4179
Hiring halls, intermixing with union shop (address).....	8108
Hiring practices, see Employment.	
Hiss act, see National security.	
Histamine, content in blood of persons exposed to ionizing radiation in industry.....	622
Histochemistry, method of detecting polyglucose content in tissues following transfusion.....	7921
Histology:	
All-Union Congress of Anatomists, Histologists, and Embryologists, resolution.....	12990
theories of A. A. Zavarzin and N. G. Khlopin USSR study.....	16602
Historians, examination announcement.....	8474
Historic sites:	
historical and archeological data threatened, salvage program, report.....	8864
publications, price list.....	1147
vacation planning, Government publications, list.....	6903
see also names of historic sites.	
Historians, examination announcement.....	3203
History:	
American, publications, price list.....	5377
Communist China, evaluation translations from political and sociological publications.....	16558
communist party of Soviet Union, program for course.....	559
general and Old World, Library of Congress classification.....	6638

	Entry
History—Continued	
historical handbook series.....	1111, 13490
North Vietnam, Cultural-Historical-Geographic Research Commission.....	12813
see also Military history—also names of departments, etc.—also subjects.	
History and Technology Museum, construction, progress, report.....	8812
Hits count.....	3144
Ho Rim Yoon, see Holsman, Ho Rim Yoon.	
Hoblitzell, John D., jr., former employees compensation, report.....	4700
Hockey, organized professional teams, commercial activities, applicability of antitrust laws, hearings.....	338, 16214
Hoeger, Katharina, relief.....	8874, 13983, 14144
Hoffa, James R.: improper activities investigation—hearings.....	1569, 3387A, 4743, 16205, 17354, 12503
misuse of labor union funds, hearings.....	1569
Hoffer, Victor, relief.....	9815, 13941, 14390
Hoffmann, Melanie, relief.....	7529, 8576, 11921
Hogs, see Swine.	
Hogup, Utah, railroad accident.....	3636
Holden Mine, mining methods and costs.....	1984
Holders, work holders, classification bulletin.....	6887
Holding companies: act of 1935, releases, SEC.....	2923, 11468
affiliates, voting permits, regulation.....	3478
personal, income, exclude copyright royalties, report.....	15791
savings and loan, regulation to limit operation—hearings.....	9905, 14553
law.....	15738
reports.....	12177, 12200, 14521
see also Banks and banking—Public utilities.	
Holidays:	
Government employees, absence from duty on certain days—hearings.....	7476, 7644
law.....	15726
reports.....	7428, 8707, 14526
views.....	7428
holiday of labor and peace, USSR—paid, provisions in major union contracts—	14910
departmental edition.....	7979
document edition.....	7328
Holley, Karmen L., relief of legal guardian.....	7539
Holley, Laurie D., relief.....	7539
Holloman Air Force Base, N. Mex.: Air Force Missile Development Center—balloon operations contributions to research and development.....	5593
space biology and biodynamics research.....	5599
Holothuridae, see Sea cucumbers.	
Holsman, Ho Rim Yoon, relief.....	8004, 13919, 14121
Home canning of meat.....	1306
Home demonstration work, see Home economics.	
Home economics:	
and related fields, titles of theses completed.....	3076
city supervisors, list.....	4777

	Entry
Home economics—Continued	
cotton and competing fibers for household furnishings, home-makers appraisal.....	101
family economics review.....	2273, 10725
feeding the family, problems reported by home demonstration club members.....	16316
home and garden bulletins.....	94-96, 1306, 5534, 8314-15, 11626, 15309, 17194.
home demonstration organization members, general characteristics.....	16317
homemaker service programs, different ways in which administered.....	4024
housing changes planned by home demonstration club members, study report.....	14621
publications, price list.....	6904
publications for homemaker, list.....	6318
research reports.....	4171, 7052
teacher training, and departments, institutional heads, list.....	6097
Home Economics Institute, publications, list.....	58
Home fruit garden in Central Southwestern States.....	8316
Home labor, fair labor standards act provisions, exempt in rural areas, hearings.....	12564
Home loans, see Loans.	
Home sanitation, see Sanitation.	
Home sewing, see Sewing.	
Homemade milking stall, side entering type.....	8327
Homemaker service, see Visiting housekeepers.	
Homemakers, see Families—Home economics.	
Homemaking, see Home economics.	
Homeowners, see Homes.	
Homes:	
building, how FHA helps improve techniques.....	402, 12645
construction, maintenance, furnishings, publications, price list.....	2108
improve today with FHA.....	3460, 14626
mortgage debt and financing activity.....	2539, 11075
remodeling, etc., planned by home demonstration club members, study report.....	14621
serviceman, home-buying information.....	1623, 16321
typical electric bills.....	16328
see also Houses.	
Homes (Institutions), see Children's homes—Nursing homes.	
Homesteads:	
Alaska mineral lands, quitclaim oil and gas rights, hearing.....	16208
homesteading past and present.....	16673
Homicide, death rates by age, color, and sex, 1949-51.....	13486
Homing as problem of technical cybernetics.....	13755
Homoptera, see Leafhoppers.	
Honan Province, China: agriculture, draft plan to expedite.....	699
annual plans, reports 1958.....	13210
Honduras, living conditions.....	17445
Honduras, British, see British Honduras.	
Honey:	
market news, semimonthly reports.....	2247, 10699
production, 1958, summary.....	4143
production, two-queen colony management.....	4151
production and stocks.....	33
report, 1959.....	13689
Honey bees, see Bees.	

# INDEX, 1959

	Entry		Entry
Hong Kong:		Horticulture, ornamental, bibliog-	
economic developments, 1958-----	6226	raphy of marketing and other	
establishing business-----	14686	economic information-----	13677
Fattau Point approach, sailing di-		Hortobogyl, Martha L., relief-----	14369
rections-----	17500	Hose, stations for fire prevention,	
Honolulu Magnetic Observatory, mag-		military construction-----	382
netograms and hourly values-----	3240,	Hose pumps, <i>see</i> Pumps.	
	5753	Hospital and Medical Facilities Divi-	
Honor (ethics):		sion, project register-----	2896, 11438
business and small marketers-----	9494	Hospital apparatus and supplies:	
code for Government service-----		casters, wheels, and glides for	
legislative proposals, etc., staff		equipment, standard of trade-----	9683
report-----	3332	Federal supply catalog-----	7657
print as House document, re-		Hospital corpsmen, chief, Navy	
port-----	5847	training courses-----	1122
code of ethics for Government ser-		Hospital housekeepers, executive,	
vice, poster-----	9802	examination announcement-----	11847
Government administrative process		Hospitalization, <i>see</i> Hospitals.	
and ethical questions, hear-		Hospitalization insurance, coverage	
ings-----	1552	for old age, survivors, and dis-	
Hoo W. Yuey, <i>see</i> Yuey, Hoo W.		ability insurance beneficiaries,	
Hoopie, Gordon D., relief-----	4508,	HEW Dept. report-----	8763
	8792, 11884	Hospitals:	
Hoover, John Edgar, director, FBI,		approved for Federal construction	
efforts by Communist conspir-		fund-----	2896, 11438
acy to discredit, articles docu-		benefits for OASI beneficiaries-----	
mented by Edgar J. Mowery		hearings-----	15977
from Newark, N.J., Star-		hearings, additional copies,	
Ledger-----	7497	report-----	15908
Hoover Commission, <i>see</i> Organization		care for veterans residing abroad,	
of Executive Branch of the		include those with peacetime	
Government Commission, 1953-		service-incurred disabilities-----	14008
55.		law-----	14203, 14433
Hoover's plan for Government organ-		reports-----	11827
ization, <i>see</i> Government reor-		emergency, civil defense, procedures	
ganization plans.		for training and handling-----	
Hopeh Province, China:		environmental aspects of staphy-	
Government work report on prog-		lococcal disease, selected ma-	
ress-----	585	terials for training personnel-----	4029
sewage supply and sewerage system		Federal employees group medical	
in rural commune, propaganda		and hospitalization program,	
program of propaganda depart-		desirability investigation, ex-	
ment on implementing-----	10230	penses, reports-----	4701, 4703
work reports, government and judi-		general, with psychiatric facili-	
cial-----	14903	ties, patients, 1956-----	17775
Hopewell Village National Historic		lying-in, microflora of air, detec-	
Site, general information-----	10526	tion with aerocentrifuge,	
Ho-Ping no. 28 (ship):		USSR study-----	5037
China's sea-going ship record in		medical health facilities USSR-----	772
history of shipbuilding-----	3672	Public Health Service, first job for	
Hoplomys, <i>see</i> Rats.		nurses-----	2110
Hops:		resident in hospital administration,	
foreign agriculture circulars-----	2643	examination announcement-----	3205
foreign trade prospects-----	3522	short-stay, patients discharged, etc.,	
stocks, Mar. 1, 1959-----	6503	July 1957-June 1958, statis-	
Horiuchi, Harvey H., relief-----	5961	tics-----	2111
Horizons in Indian health, dentistry,		survey and construction act with	
15169		amendments, compilation-----	4426
Horizontal centrifugal rectifier-----	12946	survey and construction program,	
Horizontal velocity divergence in at-		meeting community health fa-	
mosphere, USSR studies-----	5114	cility needs-----	5382
Hormones:		USSR, statistical data-----	16607
diet, hormones, and atheroscle-		<i>see also</i> Air Force hospitals—Men-	
rosis, review of research		tal institutions—Military hos-	
grants-----	5316	pitals—Veterans hospitals—	
protective effect on action of ioniz-		also names of hospitals or	
ing radiation, USSR studies-----	6502	places where located.	
somatotrophic in radiation affection,		Hot laboratories, <i>see</i> Radiation labo-	
prophylactic and therapeutic		ratories.	
action, USSR studies-----	3737	Hot Springs National Park:	
Horn flies, <i>see</i> Flies.		Army and Navy General Hospital	
Horse bot flies, <i>see</i> Flies.		conveyance to Arkansas-----	
Horses:		hearing-----	8890
abandoned on Federal range, prob-		law-----	15688
lem in range management and		reports-----	9989
conservation-----	1977	general information-----	3971
diseases caused by horse bots, how		Hot water bath and thlousea break	
to control-----	9609	dormancy of wedgeleaf ceano-	
infectious encephalomyelitis-----	8302	thus seed-----	3552
use on farms-----	7034	Hotbeds, electric heating-----	4174
wild, prohibit use of aircraft or		Hotels, cabins, etc., in areas adminis-	
motor vehicles to hunt-----		tered by National Park Serv-	
law-----	15618	ice-----	13494
reports-----	14231, 16078		
Horseshoe Atoll, geology-----	16469		



# JANUARY-DECEMBER

	Entry
Houma, La.:	
navigation projects, declare non-navigable streams—	
law.....	15616
reports.....	9992, 15808
Hours of labor:	
automotive parts wholesaling, Federal wage-hour law application.....	5457
cyclical turns, relation to employment cycle.....	9321
employment, hours and earnings, monthly releases.....	2750, 11287
employment, hours, and earnings in manufacturing.....	9298
Guam, application of wage and hour law.....	4119
nonagricultural industries, technical note.....	9319
overtime pay, Customs Bureau employees claims, report.....	16074
poultry and egg business, Federal wage-hour law application.....	5458
union—	
building trades—	
departmental edition.....	9290
document edition.....	8537
local-transit operating employees—	
departmental edition.....	5173
document edition.....	4451
motortruck drivers and helpers—	
departmental edition.....	9291
document edition.....	8538
printing industry—	
departmental edition.....	13288
document edition.....	12040
union contracts, premium pay for night, weekend, and overtime work—	
departmental edition.....	13289
document edition.....	12043
waste material industry, Federal law application.....	9543
wholesale grocery business, Federal wage-hour law application.....	5456
working time under Fair labor standards act, interpretative bulletin.....	9542
House Administration Committee, House:	
additional funds, report.....	14270
calendars.....	2453, 10984
hearings.....	14339
operations, expenses, report.....	3309
reports.....	1529, 3302-11, 4544-45, 4554, 4559-73, 4577, 4609, 4624-27, 5832-33, 5845-48, 7365-73, 7424-25, 8628-29, 8636, 8638-39, 9868-70, 12209, 14270-284, 14323, 15792, 15848, 15902-907, 15909, 15914, 17325
House bills.....	1513, 3265, 4427, 5788, 7322, 8526, 9796, 12032, 14106
House documents.....	287-305, 1514-28, 3266-89, 4428-69, 5789-5817, 7323-41, 8527-50, 9797-9811, 12033-49, 14107-117, 15761-776, 17322-324
House of Representatives:	
action on Hoover Commission reports, report.....	6004
appropriations, 1960, legislative—	
hearings.....	8720
reports.....	8671, 8869
budget, 1960, amend, proposal.....	7337
calendars and history of legislation.....	2445, 10976
Cannon's procedure.....	9803
print, law.....	7306
contested elections—	
Alford vs. Hayes—	
hearings.....	3321, 14339
report.....	15914

	Entry
House of Representatives—Continued	
contested elections—continued	
Knutson v. Langen, hearings.....	3321
Mahoney v. Smith.....	7338, 8546
Myers vs. Springer.....	7336
delegation, NATO parliamentarians' conference, clerk, report.....	3303
delegation to Canada—U.S. Inter-parliamentary group, report.....	12225
election complaints, Arkansas 5th and Minnesota 9th districts, hearings.....	3321
employees—	
restrict dual compensation, report.....	4609
specify salary rates, report.....	8639
journal, 85th Cong., 2d sess.....	3263
manual.....	5795
Members—	
appointments to fill temporary vacancies, report.....	12462
campaign expenditures investigations—	
report.....	1530
views.....	1530
deceased, settlement of trust fund accounts, etc.—	
law.....	11989
reports.....	8636, 12422
employ administrative assistant, reports.....	4554, 4609
stationary allowance for Members, Delegates and Resident Commissioner increase, report.....	12209
telephone and telegraph allowances, changes—	
law.....	15705
report.....	16091
official committee reporters office and official reporters of debates office transcribers, fix compensation, reports.....	5846, 14271
positions, basic compensation to be fixed at multiples of \$50, report.....	4609
Postmaster Office, additional laborer, report.....	4565
records, 1789-1946, preliminary inventory.....	9392-93
rules.....	5795
telephone directory.....	4425
House painting, see Painting.	
House reports:	
private bills.....	4470-4543, 5818-30, 7342-60, 8552-8627, 8812-29A, 12050-12114, 14118-200, 15777-783
public bills.....	306, 1529-40, 3290-3315, 4544-4628, 5831-5901, 7361-7432, 8628-8716, 9830-91, 12115-265, 14201-323, 15784-933, 17325
Household appliances:	
Federal supply schedule.....	14653
industry outlook for 1959 and review of 1958.....	1407
see also Electric apparatus and appliances.	
Household employer's social security tax guide.....	534
Household goods:	
and commercial furnishings, Federal supply schedule.....	6176, 14653
homemakers appraisal of fibers for furnishings.....	101
military personnel, commercial warehousing services.....	351, 8921
Navy personnel, temporary storage in commercial facilities, expenses, relief, report.....	14229
preparation for shipment and storage military standard.....	12583

# INDEX, 1959

	Entry		Entry
Household goods—Continued		Housing—Continued	
prices and price indexes, 1957----	900	definitions as they relate to pro-	
publications, price list-----	2108	grams of HHFA-----	6306
Household workers, <i>see</i> Servants.		farm workers, adequate living ac-	
Households:		comodations-----	7605
by type, 1950-59, population char-		financing of owner-occupied resi-	
acteristics-----	13854	dential properties, U.S., national	
characteristics, Mar. 1958-----	205	housing inventory, 1956-----	215
meat consumption, review of 1955		hearings before Commission on	
survey data-----	17168	Civil Rights-----	13879, 15511
number, 1960-80, projections-----	3182	housing and construction reports,	
number in U.S., 1900-58, esti-		housing vacancies-----	3188, 8458
mates-----	4353	intercensal survey, evaluation, de-	
television sets in U.S.-----	11803	scription of concepts-----	13866
<i>see also</i> Families.		investigation—	
Housekeepers, <i>see</i> Hospital house-		authorization, reports-----	3294, 3363
keepers.		expenses, report-----	3304
Houses:		extension, report-----	3349
basementless, moisture-barrier per-		living units, minimum property	
formance of ground covers-----	3575	standards-----	3461
heat loss calculations-----	16322	review-----	6125
large-panel, residential, vibration		migratory workers, Dade County,	
and noise characteristics,		Fla-----	5164
USSR, study-----	12953	military, Wherry projects acquisi-	
prefabricated wood—		tion—	
dwellings, industry outlook for		hearing-----	9902
1959 and review of 1958-----	1431	report-----	9903
facts for industry-----	15477	minority groups and housing (ad-	
residential dwelling hygiene prob-		dress)-----	12644
lems, USSR study-----	17578	national housing act, amend—	
residential structures, use for ra-		hearings-----	3383, 4648
diation protection against dis-		laws-----	11999, 15736
tributed sources, experimental		reports-----	3380,
evaluation-----	4312	4595, 7429, 9867, 9873, 12429,	
<i>see also</i> Alley dwellings—Farm-		14444, 14495, 15833-834, 16145	
houses—Homes.		veto-----	9943, 15991
Housing:		veto, hearings-----	12528
act of 1949—		views-----	3380, 4595
slum clearance and urban re-		national inventory-----	4362-63, 5702-10
newal program, URA report of		characteristics, standard metro-	
operations-----	6994	politan area—	
urban renewal programs author-		Atlanta-----	5703
ized by act, operations report-----	11530	Boston-----	4363
urban renewal project directory-----	11532	Chicago-----	5704
act of 1954—		Dallas-----	5705
amend, law-----	13994	Detroit-----	5706
urban renewal project direc-		Los Angeles-----	5707
tory-----	11532	New York-northeastern New	
acts, amendments of 1959—		Jersey-----	5708
hearings-----	3383, 4648	Philadelphia-----	5709
law-----	15736	Seattle-----	5710
reports-----	3380, 4595, 7429, 9867,	characteristics, United States	
14444, 14495, 15833-834, 16145		and regions-----	5702
section by section analysis-----	16195	components of change, 1950-56,	
veto-----	15991	United States and regions-----	4362
veto, hearings-----	12528	new dwelling units authorized—	
views-----	3380, 4595	local building permits, annual	
administrator, basic statutes, pub-		summary, 1957-58-----	13295
lic regulations and formal or-		monthly statistical report, by	
ders-----	6303-5	cities-----	2756, 11294
aged, living arrangements—		new units and permit valuation au-	
expert views summary-----	16216	thorized in Washington, D.C.-----	2757,
hearings-----	12561	9309, 9311, 11296	
Air Force dependents, forecast.		nonfarm families, consumer fi-	
Air Force pamphlets-----	140, 4234	nances survey, 1959-----	17414
and mortgage markets, study, pa-		nonfarm starts-----	10898, 11079, 11295
pers-----	1568	nonfarm starts 1889-1958—	
Armed forces housing insurance,		departmental edition-----	14974
administrative rules and regu-		document edition-----	14111
lations, under FHA secs. 803		older people, what public housing	
and 809-----	7705	has done and is doing-----	15172
block statistics program in 1960		Poland—	
census-----	6991	construction material in five-year	
changes planned, etc., by home		plan, prospects-----	691
demonstration club members,		public construction enterprise,	
study report-----	14621	its role and tasks-----	869
code of Federal regulations-----	6140	private, mortgage market prob-	
community facilities loan program,		lems, hearings-----	12529
expand, hearings-----	8725	public—	
current reports, housing charac-		permanent legislation in appro-	
teristics-----	11803	priation act re Gwinn amend-	
dealers and individuals subject to		ment, opinion of Attorney	
certain sections of title 1, National		General-----	10390
housing act, list-----	4815		

# JANUARY-DECEMBER

	Entry		Entry
Housing—Continued		Hrycyk, Maksym, relief	12086
public—continued		Hsien-tai Fo-hsuen (periodical):	
programs, open occupancy		articles	6461, 6570, 9241, 12874
trends	17059	Hsin Kuan Ch'a (periodical):	
recreation activities and facilities open to community	8201	articles	6477
relocation housing questions and answers on section 221 of national housing act	16323	HSS series	8026, 13310-312, 14097, 16693
savings and home financing chart book, 1959	7704	Hua-hsueh Kung-yeh (periodical):	
savings and home financing source book, 1959	12643	articles	9222
specially adapted for disabled veterans, grants by VA—		selections	1753
law	14084	Hubs, helicopter rotor, parasite-drag measurements	3930
reports	12219, 14511	Hudson, Henry:	
starts data, FHLBB monthly report	2543	exploratory voyages, celebration in 1959, President to proclaim—	
statistics, monthly	2665, 11204	law	9788
units started, statistics (address)	3810	reports	8825, 9842
vacant dwellings in United States	3188, 8458	Hudson & Manhattan R.R., accident	9152
veterans—		Hudson Bay:	
admission to low rent projects, extend period, report	9871	surface water of basin, quality	12772
loan guaranty and direct loan programs, additional funds—		surface water supply of basin	14763
law	9793	Hudson River:	
reports	3312, 4547	navigation conditions at Troy lock and dam, hydraulic model investigation	14604
extend, report	12221	shad, effect of New York-New Jersey pound-net catches on runs	3500
rural areas, small cities, etc., hearings	4663	Huebner, Klarchen, and children, relief	4699
Yorktown, Va., facility—		Hueco Bolson, ground water resources of area	520
Coast Guard to operate—		Hulls (aircraft):	
law	14007	planning surfaces, study including effects of cross section and plan form	949
report	12451	seaplane, high wing loading, effect of increase in angle of dead rise on hydrodynamic qualities	1057
transfer from Navy Dept. to Coast Guard, report	12171	stepless, hydrodynamic investigation of Navy seaplane	16808
see also Alley dwellings—Houses.		transonic seaplane design having planing-tail hull, hydrodynamic characteristics	16826
Housing and Home Finance Agency: abolish and transfer functions, hearings	12289	Human anatomy, see Anatomy.	
administrator, basic statutes, public regulations and formal orders	6303-5	Human engineering:	
appropriations, 1960, hearings	7454	applied physical anthropology, annotated bibliography	11688
career opportunities	526	aptitude testing, catalog of technical reports	3175
auditors	4933	auditory and visual research and tests, 1932-58, catalog of technical reports	4341
engineers	525	group behavior and leadership, 1944-58, catalog of technical reports	3173
finance analysts	4934	human-operated target data processing systems, problems in design	2089
housing definitions as they relate to programs in HHFA	6306	Industrial research and industrial studies, 1924-58, catalog of technical reports	4342
news releases	2666, 11205	man-machine system—	
nomination, Mason, Norman P., hearing	3385	factors in NRL nuclear reactor control system	8149
periodicals currently received, list	14767	comparison of zero-order and fourth-order aided compensatory systems	6859
Housing insurance, see Mortgage insurance.		manual tracking systems, interactions between display gain and task induced stress	2085
Houston, Tex.:		personnel training, etc., 1934-58, catalog of technical reports	3174
Boilermakers Union activities, investigation, hearings	10046	radar air traffic control problems, study	17235
electric facilities of area, map	16340	visual presentation of information, data and design recommendations	7121
Houston Ship Channel:		Human factors in engineering design, see Human engineering.	
improvement, engineer report—		Human race, see Man.	
departmental edition	376		
document edition	289		
How American buying habits change	10396		
How better business bureaus help small business	9493		
How our laws are made	7365, 9805		
How to buy surplus personal property from Army, Navy, Air Force, Marine Corps	7658		
Howard County, Tex., Horseshoe Atoll, geology	14756		
Howe Sound Co., mining methods and costs, Holden Mine, Chelan County, Wash.	1984		
Howe, Thomas A., relief	4477		
Howell, Mame E., relief	4490, 8778, 9765		
Hoyerswerda, Germany, industrial enterprises, etc.	862		

# INDEX, 1959

	Entry		Entry
Human relations:		Hungary—Continued	
improving in supervision, conference leader's guide.....	876	radioisotope radiation defense.....	641
improving personal relationships—		revolt, United Nations documents and reports, hearings.....	6072
application of problem solving techniques.....	4249	scientific research—	
developing leadership ability.....	4250	continental network, adjustment.....	6408
how differences in workers affect job.....	4247	horizontal datum of 1st order, development of establishment.....	6409
understanding workers.....	4248	leveling corrections due to force of gravity.....	3714
international meetings, world list.....	11320	photographic maps, preparation, new procedure.....	6407
morale in business, personnel management, etc.....	4055	selected economic translations.....	725, 6506, 6554, 10294, 10300, 12999, 13003, 13015, 13021, 13028, 13069, 13080, 13101, 13110, 13113, 13161, 13185, 13200, 13227, 14879, 14884, 14896, 17583, 17618.
supervisors, training.....	876	selected political and sociological translations.....	508, 1758, 3656, 4985
Human rights, <i>see</i> Civil rights.		selected sociological translations.....	5001, 6375, 17560
Human tolerance to rapidly applied accelerations, summary of literature.....	13433	sending gift packages to.....	10144
Humane slaughter:		statistical yearbook, 1956, translation and glossary.....	14794
kit.....	7042	United States exchange programs.....	16203
law, how it operates, methods under study.....	9592	Hungry Horse Dam:	
Humble Oil and Refining Co., aircraft accident.....	1479	general information.....	4041
Humboldt County, Calif., Eureka area, geology and ground-water features.....	9127	structural behavior measurement study.....	9478
Humidity, electric fan psychrometer for measuring.....	7838	Hunter, Edward, testimony.....	7636
Humphrey, Hubert H., United States and World Health Organization report.....	8891	Hunting, sports, classification, Library of Congress.....	8016
Hunan Province, China:		Huntley, Mont.:	
agricultural tax provisions and procedures.....	4095	School District no. 24, land conveyance—	
national economic plan on fulfillment for 1st half of 1958, statistical bureau's report.....	9159	law.....	14094
provincial congress on economic construction (speech).....	6345	reports.....	8822, 15820
southeastern, agricultural geography of hilly regions.....	12880	Huntley project:	
work report of People's Council, 1958.....	6398	land conveyance to School District no. 24—	
Hung Ch'i (periodical):		law.....	14094
articles.....	5016, 9180, 6354A, 9161, 9176, 9178, 9193, 9236, 10235, 12889, translations.....	reports.....	8822, 15820
	14810, 14840, 16516, 16538, 17543, 17558	Huron, Lake:	
Hungarian Refugee Relief, President's Committee for, <i>see</i> President's Committee for Hungarian Refugee Relief.		drift bottle movements, surface current studies.....	6194
Hungarians, status of refugee programs, report.....	12559	small craft, gale and whole gale warning facilities chart, 1959.....	8271
Hungary:		Husbands and wives of U.S. citizens, naturalization benefits.....	4943
agricultural economies, notes.....	16396	Hutto, William C., relief.....	4491
agriculture, forestry, and fishing.....	729, 1832, 6434, 10277, 12991, 13100, 13168, 14883, 17582, 12995, 13013, 13026, 13039, 13059, 13097, 13112, 13125, 13155, 13179, 13191, 14885, 14893, 14897, 14908, 16569, 16578, 17589, 17607, 17622.	Hwai River and Valley, climatic types of floods and droughts.....	13047
bauxite deposits, geology.....	614	Hyaluronidase, content in blood of persons exposed to ionizing radiation in industry.....	622
central press review, June 13-19, 1958.....	564	Hybridization:	
development of ferrous metallurgy—	12909	corn, planted acreage.....	13690
foreign trade, techniques.....	12877	sugarcane, breeding behavior of agronomic characters in progenies of crosses.....	4195
legal abstracts, Magyar Kozlony.....	726, 5050, 5073, 6483, 6560, 10278, 10288, 12992, 13006, 13030, 13060, 13122, 13140, 13177, 13217.	Hydration, mechanism and kinetics of reactions.....	15132
Mining Research Institute, operation of petroleum department, parcel operations, report.....	618, 15972	Hydration-rate studies of gypsum, plasters, effects of small amounts of dissolved substances.....	10454
Peoples Republic, geophysical academic and research institutes, etc.....	1876	Hydraulic cement, <i>see</i> Cement.	
provincial press, summary.....	713, 715, 750-752, 779, 1834, 5051, 5062, 6454, 6460, 10292, 10299, 10308	Hydraulic engineering, hydraulic engineering construction (USSR periodical), abstracts.....	7176, 10806
		Hydraulic mining, <i>see</i> Mines and mining.	
		Hydraulic systems:	
		hot gas servomechanisms, research study.....	11691
		pipe lines dependability, improving.....	13756
		sealing of units with metallic slot rings.....	13768
		Hydraulic turbines, <i>see</i> Turbines.	



	Entry		Entry
<b>Hydraulics:</b>		<b>Hydrodynamics—Continued</b>	
Committee on Tidal Hydraulics, report.....	8966	planing surfaces, study, including effects of cross section and plan form.....	949
model investigations—		multijet water-based aircraft having low transonic drag rise, investigation.....	13412
Barcelona, N.Y. harbor breakwater location and wave action.....	17389	Navy seaplane design equipped with hydro-ski, investigation.....	16808
Calumet River lock.....	7081	supersonic multijet water-based aircraft, model with engines exhausting from step, investigation.....	16862
Delaware River channel improvement.....	6108	theory on series expansions in magnetic Reynolds number.....	13445
Old River control structure.....	12616	wake effects on hydro-skis, experimental investigation, errata.....	13431
Old River overbank control structure forces on panel gates.....	6109	Hydroelectric power, <i>see</i> Electricity.	
Old River project, rock-fill initial closure dam.....	7680	Hydroelectric power plants, <i>see</i> Electric power plants.	
spillway and conduits for Table Rock Dam.....	12617	<b>Hydrofoils:</b>	
Troy lock and dam navigation conditions.....	14604	rough-water ditching investigation of model of jet transport.....	16912
Walter F. George lock and dam.....	14605	super-cavitating theoretical characteristics of low-drag coefficients.....	9379
research in United States, 1959.....	16940	ventilated flows about yawed surface piercing struts, exploratory study.....	6765
tidal, bibliography, supp.....	8966	<b>Hydrogen:</b>	
<b>Hydrazine:</b>		bonding of phenols to olefins.....	7077
comparison of hydrazine-nitrogen tetroxide and hydrazine-chlorine trifluoride in rocket chambers.....	17754	combustion properties, survey.....	8069
turbine-drive fluid, comparison with primary propellants.....	17742	coolant for return-flow turbine rotor blade, analysis of flow and pressure requirements.....	6722
<b>Hydrides, metallic, and gold, cross sections determined with neutron spectrometer.....</b>	8397	hydrogen-liquid-oxygen propellant in small rockets, combustion efficiency, effects of added ozone.....	10500
<b>Hydro-skis, <i>see</i> Skis (aircraft).</b>		lines, Stark components and broadening functions, numerical values of intensities.....	9395
<b>Hydrocarbons:</b>		<b>Liquid—</b>	
catalysis with oxide catalysts dehydrogenation of n-hexane, etc., USSR studies.....	1910	thermodynamic properties, combustion products, methods for using for cycle analysis and design of turbojet engines.....	10474
dehydrogenation in presence of aluminum-chromium-potassium catalyst, USSR studies.....	3792	with liquid oxygen, as rocket propellant.....	13435
liquefied gases, evaluation as turbojet fuels.....	1014	micro determination in organic compounds.....	13526
radiolysis, formation of free radicals and atoms at temperature of 77° K, USSR studies.....	3728	noble-metal systems, electrochemical mechanisms.....	16985
unburned, prohibit use of vehicles discharging in amounts dangerous to human health, hearings.....	14342A	oxidation, study based on flashback of hydrogen-oxygen-nitrogen burner flames.....	2052
<b>Hydrochemistry, Soviet abstracts.....</b>	765, 781, 785, 1852, 1857-58, 3745, 3748, 3752, 6567, 10321, 13016, 13106, 13118, 13133	stability of ceramics between 4000° and 4500° F.....	6778
<b>Hydrochloric acid:</b>		transport through metals.....	16985
aerosols in air, determination by turbidometric method, USSR studies.....	7951	working gas for reactor-heated rocket motors.....	15086
disposal at Chemical Corps agent plants.....	17287	<b>Hydrogen chloride, aerosols in air, determination by turbidometric method, USSR studies.....</b>	7951
solution of pentavalent niobium, nature, USSR study.....	17626	<b>Hydrogen-fluorine, altitude stage rockets, hydrazine with primary propellants as turbine drive fluid.....</b>	17742
<b>Hydrodynamic impact loads, <i>see</i> Load (mechanics).</b>		<b>Hydrogen-oxygen, altitude stage rockets, hydrazine with primary propellants as turbine drive fluid.....</b>	17742
<b>Hydrodynamics:</b>		<b>Hydrogen peroxide:</b>	
beam loading effect on water impact loads and motions, theory.....	3919	hot jet simulator for wind-tunnel tests of turbojet aircraft engines.....	5262
calculations, shock waves in helium.....	3986	use in thrust augmentation for turbojet combustor.....	2039
characteristics of submerged lifting surface having shape suitable for hydro-ski application.....	17735	<b>Hydrogen-sulfide, processes for removing from industrial gases, bibliography.....</b>	13315
characteristics of two low-drag supercavitating hydrofoils.....	9379	<b>Hydrogenolysis study of kerogen in Colorado oil shale.....</b>	6671
effect of mounting hydro-skis on shock absorbers.....	6728		
impact-load alleviation with penetrating hydro-ski.....	5261		
impact theory for loads and motions of deeply immersed prismatic bodies.....	5282		
interaction between small cloud drops, effect upon their falling speed, USSR study.....	3698		
long-range weather forecasting, USSR study.....	6600		

## INDEX, 1959

	Entry		Entry
Hydrographic Office: charts, correction list-----	9132	Hygiene-Continued	
H.O. publications-----	527-530,	Industrial-Continued	
1718-24, 2668, 3609-17, 4935-42,		USSR, problems for modern	12972
6307-13, 7865-68, 9133-35,		physicians-----	12967
11207, 12778-79, 14768-779,		vibration and its significance,	9465
16477-482, 17497-503.		book review-----	13268
nautical charts and publications,		workers, publications, price list	13249
index catalog, monthly corrections	2668,	laboratories for radioactive sub-	14681
observers manual-----	11207	stances, requirements for plan-	
Hydrography, raydist control for sur-	3617	ning and equipping, USSR	
veys on Georges Bank-----	17303	study-----	12988
Hydrological Congress, Union, USSR,		nutrition problems, USSR plans	13269
see Union Hydrological Congress, USSR.		poultry and poultry products, in-	
Hydrology:		spection recommendations-----	12952
bibliography, USSR-----	845	problems-----	616
budget of Beaverdam Creek, Md.,	7861	medical radiology, USSR study	12988
contributions to hydrology of		radiology, USSR study-----	13269
United States (series)-----	3605, 7859-60	USSR conference on medical	10231
flow-duration curves, methods and	17495	radiology, proceedings-----	15161
practices of Geological Survey	7923	publications, price list-----	6431
Leningrad literature, 1957-----		radiation, Soviet work-----	860
Long Beach-Santa Ana area,		research activity by Institute for	
Calif-----	12773	Hygiene, Bucharest, Rumania	860
manual (series)-----	17495	in 1956-----	17578
meteorology and hydrology (USSR		residential dwelling problems,	
periodical) abstracts-----	10831	USSR study-----	17578
public domain (series)-----	6298	tasks and national economy of	
selected articles from meteorology		USSR, 7-year plan for develop-	12952
and hydrology-----	6465	ing-----	616
3d all-union Congress session,		USSR congress, summary-----	
USSR-----	1872	see also Health.	
Torrance-Santa Monica area,		Hygienists, all-Union and all Russian	
Calif-----	9123	scientific societies joint plenary	
unexplored rivers, problem of pre-		session, results-----	16544
paring hydrological forecasts,		Hylobius radialis Buchanan, see Wee-	
USSR-----	12918	wile.	
literature, 1956, bibliography-----	14843	Hymenoptera, see Flies.	
literature, 1957, 1884, 1948, 6575,	7907	Hymn, Armed Forces hymnal-----	6080
reference journals-----	14852	Hypercholesterolemia, dietary induced,	
Wind River and Fifteen Mile		effect on content of adrenalin	6611
Creek Basins, Wyoming, 1947-		in urine, USSR study-----	9607
54 data-----	6298	Hyperkeratosis, cattle disease, causes,	
see also Water supply.		symptoms, etc-----	15395
Hydrolysis:		Hyperosna, general characteristics,	
chemical and enzymatic, of fish		etc-----	
scales-----	426	Hypersonic flow, see Flow.	
mechanism and kinetics of reac-		Hypersonic speed, see Air speed.	
tions-----	15132	Hypertension, see Blood pressure.	
Hydrometeorology:		Hyphen in labor-management rela-	
Albania-----		tions (address)-----	1106
service-----	1881, 12919	Hypothermia, influence on carbohy-	
services on rise-----	1881	drate-phosphate metabolism in	
problems, conference on European		brain, USSR studies-----	6523
communist countries, report-----	12911	Hypoxia, see Oxygen deficiency.	
scientific seminar in operating sub-			
sections of USSR service-----	1880		
USSR-----			
experience of organization of hy-			
dro-meteorological servicing of			
construction of Stalingrad hydro-			
electric station-----	1952		
research institutions of hydro-			
meteorological service, works			
completed, 1957-----	1954		
scientific-research institutions of			
hydrometeorological service,			
works completed, 1957-----	5135		
Hygiene:			
development in USSR, role of G.			
V. Khlopov-----	7963		
Industrial-----			
Industrial and agricultural devel-			
opment, 1959-65, USSR prob-			
lems-----	12936		
problems in work with high-			
frequency currents, USSR			
studies-----	5024		
scientific investigations on prob-			
lems of USSR-----	9240		

	Entry		Entry
Ice—Continued		Identification—Continued	
drifts in Arctic Basin and its seas, use of automatic drifting radio beacons for conducting ob- servations, USSR studies.....	7928	marking of iron and steel products, Federal standard.....	10112
Federal supply schedule.....	4841	petroleum products in bulk, mili- tary standard.....	1584
from Tuto tunnel and ramp, Thule, Greenland, physical proper- ties.....	16267	wood, publications list.....	10109
on aircraft, statistical icing cloud data measured over U.S., North Atlantic, Pacific, and Arctic Oceans during routine aircraft operations.....	3926	Identification plates, cast, letters and numbers, military standard.....	10065
poultry packing methods and equip- ment.....	1311	IFB series.....	10068
sea, Soviet classification and Rus- sian-English glossary.....	13305	Igneous rocks:	
survival on sea ice, Air Force manuals.....	9625-26	lead-alpha age determinations of accessory minerals, 1953-57....	17489
visco-elastic properties in Green- land ice cap.....	17380	Paraguay.....	7855
Ice and Permafrost Research Estab- lishment, <i>see</i> Snow, Ice and Permafrost Research Estab- lishment.		western United States and Hawai- ian Islands, selenium con- tent.....	12764A
Ice breakers:		Ignition:	
atomic ice breaker, Lenin, descrip- tion.....	10327	lag of self-igniting fuel-nitric acid propellants, NACA research program summary.....	1018
Coast Guard cutters for Arctic and Antarctic region, construct and equip.....	15953	spark, recent developments.....	6673
report.....	15844	spontaneous, limits of pentaborane, systems, turbojet combustor, effects of ignitor design and ignitor- gap environment.....	13401
Ice cream, ices, etc., mellorine, mar- keting in 7 trade areas.....	3068	temperatures of solid metals, in- vestigation.....	13393
Iceland:		see also Combustion.	17758
air navigation services joint financ- ing agreement.....	9512	IGY, <i>see</i> International Geophysical Year, 1957-58.	
insurance companies, settlement of claims, implement agreement of 1956.....	14036	ILA, <i>see</i> International Longshore- men's Association.	
law.....	12253	Illinois:	
reports.....	12484	agricultural conservation, hand- book.....	11
lights and fog signals, list.....	7866	Bi-State Development Agency com- pact, amend.....	
sailing directions, change.....	529	law.....	15668
special economic assistance, agree- ment.....	15210	reports.....	15801
surplus agricultural commodities, agreement.....	8241	census of governments, 1957, State bulletin.....	11783
United States Educational Founda- tion, agreement.....	5428	climate.....	17155
Ichneumon flies, <i>see</i> Flies.		climatological data.....	2993
Iconostases, duty free entry, report....	14217	commercial farm families, aware- ness and use of agricultural publications, survey.....	7869
IDA, <i>see</i> International Development Association.		credit control in retail farm sup- ply cooperatives.....	7684
Idaho:		Des Plaines Public Hunting and Refuge Area conveyance, re- ports.....	7617
agricultural conservation hand- book.....	10	electric rate book.....	7707
census of governments, 1957, State bulletin.....	11782	fertilizer bulk blending, innovation in marketing.....	4105
climatological data.....	2993	mineral industry, minerals year- book chapters.....	3845
ilmenite, chlorinating titaniferous slags.....	2013	precipitation data, hourly.....	2996
mineral industry, minerals year- book chapters.....	930	southern, loblolly seed from Mary- land best of sources tested for survival.....	10165
prescription data, hourly.....	2996	Wabash Valley water conservation, etc., compact, approval.....	15739
reconnaissance for radioactive min- erals, 1952-55.....	3600	law.....	15799
Snake River plains, native plants, seasonal development and yield, and their relation to climatic factors.....	115	reports.....	16070
snow survey and water supply fore- casts.....	2491	Illinois Central R.R., accident.....	16500
Idaho County, Idaho, land, donate to Nez Perce Indians, report.....	16112	Illinois Waterway: engineers report.....	3429
Idaho Falls, Idaho, National Reactor Testing Station, shipping of radioactive materials.....	13815	departmental edition.....	3283
Identification:		Lake Michigan water diversion in- crease, study effect.....	7483
identifying fighters for combat.....	1245	hearings.....	16226
item, replaceable parts, CAA speci- fication.....	222	reports.....	4620
		views.....	5839
		Illiteracy, Communist China, literacy drives, educational develop- ment and progress, transla- tions from political and sociol- ogical publications.....	13229
		Illness, <i>see</i> Sick.	
		Illumination, <i>see</i> Lights and lighting.	

# INDEX, 1959

Entry	Entry
Illustrations:	
restrict inclusion in D.C. annual reports—	
law—	11988
reports—	7593, 9890
Ilmenite, Idaho, chlorinating titaniferous slags—	2013
ILO, <i>see</i> International Labor Organization.	
ILS, <i>see</i> Landing (aircraft).	
ILWU, <i>see</i> International Longshoremen's and Warehousemen's Union.	
Image orthicon camera tubes, <i>see</i> Cameras.	
IMF, <i>see</i> Industrial Metalworkers' Federation.	
Immigration and emigration:	
immigration and nationality act with amendments, text—	1555
immigration quota areas according to immigration and nationality act of U.S., map—	13608
Investigation—	
authorization, report—	3367
expenses, report—	12510
report on findings—	4723
laws—	
amend, laws—	12015, 14090, 15727
reports—	7378, 8662, 9881, 12415, 12461, 16156
applicable to administrative decisions—	9267
general information—	9137
refugees and escapees, investigation, authorization, report—	3374
refugees and escapees from communist tyranny, emigration problems, investigation, report on findings—	5989
Immigration and Naturalization Service:	
I & N reporter—	2672, 11211
immigration patrol inspector, examination announcement, suspension notice—	11844
inspection stations at Cordoba Island, agreement with Mexico—	17116
interim decisions—	2673, 11212
Immunity:	
effect of ionizing radiation, USSR study—	14944
questions of immunology of embryogenesis, USSR study—	6576
reactivity in radiation affections, use of immunological and microbiological methods for study, USSR study—	13257
<i>see also</i> Immunization.	
Immunization:	
combined inoculations and prospects of their future use, USSR—	1956
information for international travel—	15170
NISI polyvaccine and trivaccine, comparative immunological characterization, USSR—	1878
non-infectious immunology questions on problems of biological action of ionizing radiation, USSR—	1864
processes, age reactivity problems, excerpts—	3685
Soviet immunology in problem of live vaccines—	1955
vaccinal process, USSR study—	12941
Immunobiological reactivity of irradiated organism, USSR—	1934
Impact:	
high-speed, investigation—	17746
tests of full-tempered glass windshield panels—	4802
Impact loads (hydrodynamic), <i>see</i> Load (mechanics).	
Impedance:	
active coupling, traveling wave antenna, USSR study—	17562
Automatic X-band microwave recorder, prototype model—	13509
breakdown and detuning of transmitting antennas used for measurements of electron densities in ionosphere—	17802
Imperial National Wildlife Refuge, birds—	3512
Implements, utensils, etc., hospital utensils, Federal supply catalog—	7657
Importers, tobacco products regulations—	6327
Imports:	
articles for exhibits, free entry, make legislation permanent—	
law—	7303
reports—	5852, 6030
articles repacked in U.S., mark with name of country of origin, report—	15856
commodities in U.S. foreign trade, 1958—	14708
foreign trade reports—	2356-57, 2376, 10887-888, 10907
statistical classification—	
schedule A, changes—	216
schedule T—	3190
total trade of U.S.—	471, 4892, 3545, 6231, 7802, 10159, 12720, 14709, 16426, 17451.
<i>see also</i> Commerce—Tariff— <i>also</i> names or classes of articles imported— <i>also</i> names of countries, etc.	
Improper Activities in Labor or Management Field, Select Committee on, Senate:	
hearings—	1569, 3387A, 4743, 7621, 8892, 10046, 14563, 16205, 17354.
Investigations and studies, authorization, report—	3356
obligations incurred, payment, report—	16062
reports—	12503-504, 17346
Improve today with FHA—	3460, 14626
Improved device for formation of superfine, thermoplastic fibers—	8147
Improvements financed through special assessments—	6993
In focus of contamination, USSR—	7960
Inadvertent instrument flying sense—	8383
Incinerators for combustible waste materials, including garbage, design, engineering manual—	12815
Inclinometers, azimuthal unit operation, first results, USSR—	3694
Income:	
accumulation, laws of D.C., exempt pension and other employee trusts—	
law—	15612
reports—	14211, 14460
aged, maintenance—	
expert views summary—	16216
hearings—	12561
changes, effects on food consumption—	13728
consumer income, series—	13853, 17279
derived from Interstate commerce, State taxation—	
law—	15639
reports—	15793, 15865, 16047
views—	16047
families and persons in U.S., 1957—	1465
family, slight rise in 1958—	17279
farm—	
cash receipts from major farm commodities by States, 1924-57—	4194



# JANUARY-DECEMBER

	Entry		Entry
<b>Income—Continued</b>		<b>Income tax—Continued</b>	
farm—continued		exchanges of U.S. obligations, treat-	
improvement prospects in low-in-		ment—	
come areas (paper).....	15294	law.....	15711
improvement through production		reports..... 14319, 14541, 15891,	15924
loans.....	13740	views.....	14319, 14541
low-income rural areas, guide-		<b>Federal—</b>	
lines for rural leaders.....	13714	collected in States return to	
situation..... 2202,	10659	States for educational pur-	
gross, percentage depletion com-		poses, hearings.....	8905
puted in mineral treatment		general and farm course, students	
processes, hearings.....	7493	handbook.....	537
hearings, additional copies, re-		general course, students hand-	
port.....	7372	book.....	536
low income rural areas, socio-e-		<b>Federal employees, State and Terri-</b>	
conomic aspects of manpower		torial withholding regulations.....	6982
adjustments (paper).....	15298	<b>Federal National Mortgage Associa-</b>	
national, in U.S., current business		tion, nonrefundable capital	
survey supp.....	4348	contributions to, treatment	
personal, data for 1958.....	13853	report.....	15860
railroads, selected items.....	2716, 11255	<b>Federal tax collections, 1957.....</b>	4953
returns, commercial family-operated		guide for farmers.....	535, 17504
farms, by type and location.....	13725	individuals, 1959.....	1728
tax returns statistics.....	9143	<b>instruction—</b>	
corporation, 1956-57.....	7873	farm course, 1958.....	542
fiduciary, 1956.....	10199	general course, 1958.....	543
individuals, 1956.....	3622	<b>levies on unemployment compensa-</b>	
individuals, 1957.....	12782, 16487	tion benefits, investigation,	
see also subject from which income		hearings.....	1550
is derived.		<b>life insurance companies—</b>	
<b>Income tax:</b>		amend internal revenue code, pre-	
alien nonresident U.S. employees,		liminary working draft of bill.....	4664
exclude amount paid by U.S.,		hearings..... 1559, 6053	
report.....	15821	summary of recommendations.....	15984
amend Constitution to provide 25		law.....	9789
percent limit, hearing.....	313	reports.....	3337, 4550, 5831, 7594, 8706, 9838
businesses engaged in interstate		views.....	4550, 7594
commerce, limit power of States		<b>municipal withholding by Federal</b>	
to impose, hearings.....	14559	agencies, amend internal revenue	
construction workers travel ex-		code, report.....	14233
penses, etc., deduction disal-		<b>mutual life insurance company tax</b>	
lowance investigation, hear-		act of 1958, hearings.....	1559
ings.....	1550	<b>nonprofit organizations, mutual de-</b>	
corporate tax rate, extension—		posit guarantee funds, exemp-	
hearing.....	10033	tion, report.....	15823
law.....	11962	<b>overpayment resulting from renegot-</b>	
reports.....	8696, 9886, 10001	iation, extend period for filing	
corporations, distributions, etc.,		claims—	
advisory group recommenda-		law.....	15645
tions.....		reports.....	4583, 14448, 15867
hearings.....	5938	<b>partners and partnerships, advis-</b>	
report.....	5940	ory group recommendations,	
summary.....	9932	hearing.....	5938
corporations tax rate, extension,		<b>personal exemption for children</b>	
report.....	9835	placed for adoption—	
dealers reserves, time of reporting,		law.....	15740
amend internal revenue code,		reports.....	15784, 16130
report.....	15912	<b>regulations under internal revenue</b>	
deductions—		code of 1954.....	538
charitable contributions, unlim-		<b>returns, statistics—</b>	
ited, amend internal revenue		corporation, 1956-57.....	7873
code, report.....	15830	estate and gift tax, 1956.....	9143
exploration expenditures, remove		<b>fiduciary, 1956.....</b>	10199
limitation, report.....	15841	individuals, 1956.....	3622
organizations, contributions to		individuals, 1957.....	12782, 16487
which are deductible, list.....	14783	<b>revisions, compendium of papers on</b>	
self-employed individuals' retire-		broadening tax base—	
ment act of 1959—		text.....	17344
hearings.....	17352	additional copies, report.....	17325
report.....	4574	<b>seamen's wages, prohibit arrest-</b>	
supplemental unemployment ben-		ment under State tax laws—	
efit trusts.....	15895	law.....	15633
<b>District of Columbia income and</b>		reports.....	12256, 12393, 14301
franchise tax act of 1947,		<b>small business, effects of Federal</b>	
amend to exempt certain Gov-		depreciation allowances on	
ernment employees, reports.....	8691, 16143	capital equipment, hearings.....	16228
<b>double taxation, convention with—</b>		<b>small business, corporations,</b>	
Belgium.....	12342, 17111	status—	
<b>Pakistan.....</b>	13615	law.....	15740
<b>United Kingdom—</b>		report.....	16135
protocol.....	1205	<b>small business tax revision act of</b>	
protocol, report.....	12346	1958, questions and answers.....	328
text.....	4087		
employer's tax guide.....	4952		

# INDEX, 1959

Income tax—Continued	Entry	Indexes—Continued	Entry
State—		broadcasting stations of world—	
on income derived from inter-		by call letter and station name	12701
state commerce—		or slogan.....	12699
law.....	15639	by country and city.....	12700
reports.....	15793, 15865,	by frequency.....	
views.....	16047	FM and TV, by country, city,	
withholding by Federal agencies,		and frequency.....	12702
amend act—		BuDocs technical digest.....	9564
law.....	15735	catalogue of library of Thomas	
report.....	14447	Jefferson.....	9325
State and Territorial, withholding		Chemical Corps specifications.....	8464
regulations on compensation of		revision lists.....	2379,
Federal employees.....	6983,	children, interdisciplinary journal	10910
stocks distributed pursuant to or-		for professions serving chil-	
ders under antitrust laws, non-		dren.....	5716
recognition of gain or loss—		Civil Aeronautics Administration,	
hearings.....	12322,	technical standard order.....	1621
report.....	15882	Civil and Defense Mobilization Of-	
stocks held at death under re-		fice publications.....	9734
stricted stock options, treat-		Coast Guard, directives, publica-	
ment, report.....	15826	tions and reports.....	4400,
United Kingdom.....	14691	code of federal regulations.....	17304
United States citizens abroad, guide		congressional committee hearings,	10105
Virgin Islands, limitation on reduc-		Jan. 3, 1935-Jan. 3, 1959.....	
tion, report.....	15885	congressional record—	11875
withholding regulations, conven-		85th Cong., 2d sess., bound vol-	
tion with Austria.....	3623	ume.....	8505
Incompetents:		85th Cong., 2d sess., daily.....	2443
veterans, disposition of benefits		86th Cong., 1st sess., daily.....	10974
upon death—		coordinated purchase descriptions.....	6919
hearing.....	7491	Court of Claims cases, v. 130-139.....	8913
law.....	12023	current literature on venereal dis-	
reports.....	7390, 8843	ease.....	2895
Incompressible flow, see Flow.		current regulations of Federal Mari-	
Incompressible flutter characteristics		time Board, Maritime Admini-	
of representative aircraft		stration, National Shipping	
wings.....	8071	authority.....	6130
Inconel, tubes and plates, welding		Department of State bulletin.....	2947
techniques, summary report.....	3160	distribution data guide.....	2331
Indebtedness, see Debt.		employment security review.....	8952
Indemnity:		engineer's digest.....	2413
AEC act operations—		Farmer Cooperative Service legal	
hearings.....	12028	cases.....	11041
reports.....	7316, 8419	Federal register.....	2556,
Independence National Historical		Federal reserve bulletin.....	11093
Park:		Federal supply classification—	2557
general information.....	3972	alphabetic index.....	8919
property acquisition—		supplements.....	2488,
law.....	11955, 14099	numeric index.....	11019
reports.....	4617, 8854, 14235,	addendum.....	12577
14531		supplements.....	2486
Independent offices, see Government		fire control notes.....	2487,
offices.		geologic names of North America.....	11018
Independent School District no. 16,		Government research reports.....	2649
see Spring Lake Park School		hearings on—	17485
District.		AEC authorizing legislation,	4347
Index numbers, see subjects, e.g.,		1958.....	
Prices.		proposed Euratom agreements.....	3259
Indexes:		Index-catalogue of library of Sur-	282
aeronautical charts, national atlas		geon General's Office.....	17781
sheet—		Journal of National Cancer Insti-	
jet.....	11851	tute.....	2851
local.....	11852	Journal of research of National Bu-	
sectional.....	11853	reau of Standards.....	2849
world.....	11854	Judge Advocates General boards of	
agricultural research (periodical),		review and Court of Military	
v. 1-3, 1953-55.....	8287	Appeals, reports, holdings,	
Air Force nominations, 85th Cong.		and decisions.....	6084
2d sess.....	9935	Library of Congress, information	
Air University periodical index.....	2294,	bulletin.....	3831,
	10746	Library of Surgeon General's Of-	
Army aviation digest.....	2323	fice, National Library of Med-	
Army Department, military index.....	11695	icine.....	17781
Army information digest.....	4282	livestock and meat situation.....	2210
Army nominations, 85th Cong. 2d		Magyar Kozlony.....	728, 755,
sess.....	12330	manufacturing production, census	
Atomic Energy Commission, report,		1954.....	5713
semiannual.....	195, 9672	announcement and order form.....	7190
bibliography of agriculture.....	2287	Marine Corps manual, v. 1 and 2,	
biennial survey of education in U.S.,		change.....	1979
1952-54.....	7663	MATS flyer.....	2302
		medical and veterinary zoology.....	11605
		medical literature, current list.....	3958

# JANUARY-DECEMBER

Indexes—Continued	Entry
medical news letter.....	5184
medical technicians bulletin.....	2492
Missouri Basin Inter-Agency Com- mittee meetings.....	13379
monthly catalog of Government publications.....	2892
monthly checklist of State publi- cations, 1958.....	9327
monthly labor review.....	883, 2740
monthly review, Railroad Retire- ment Board.....	4039
multiple cropping in Taiwan.....	609
mutual security program, hearings.....	8733
NACA technical publications.....	13382
National Museum proceedings.....	9409-10
nautical charts, national atlas sheet.....	
coast charts.....	11853
general.....	11856
sailing charts.....	11859
nautical charts and publications.....	2668, 11207
Navy and Marine Corps nomina- tions, 85th Cong. 2d sess.....	9936
Navy directives system unclassified instructions.....	8158
news for farmer cooperatives.....	397
notice to aviators, 1958.....	6314
notice to mariners.....	9136
nuclear science abstracts.....	2324, 10772
office machines— brand names, Federal supply schedule.....	14654
commodities, Federal supply schedule.....	14655
oil shale and shale oil patents and classification, 1946-56— Europe.....	14989
United Kingdom.....	1982
patents, 1958.....	6888
plant disease reporter, supplements 250-253.....	5518
problems of communism.....	2978
protective coatings specifications.....	15146
public health engineering abstracts.....	5384
public health monographs.....	2898
public health reports.....	2898
quarterly journal of current acqui- sitions, L.C.....	2775
railroads, lessors and proprietary companies.....	9154
soil conservation.....	5413
specifications, etc.— Air Force Dept., military index, supplements.....	2301, 10753
Army Department, military in- dex.....	4284
supplements.....	2322, 10768
Federal specifications, standards, and handbooks.....	6178
supplements.....	2598, 11135
Navy Department, military in- dex.....	6969, 17129
supplements.....	2959, 11507
standard weather summaries.....	13675
supervisory case studies.....	262
technical news bulletin, National Bureau of Standards.....	2850
Tennessee River navigation charts, national atlas sheet.....	13646
trademarks.....	5371
transport economics, 1958.....	3632
USAF communications-electronics doctrine, series of manuals.....	7095
Veterans Administration publica- tions.....	2168, 9536
weather stations.....	13675
change.....	17503
wool situation.....	2228
India: bulwark of free world (address).....	5161
economic developments, 1958.....	7773
foreign trade, 1957.....	1667
living conditions.....	17443

India—Continued	Entry
market changes call for action by U.S. business.....	4871
surplus agricultural commodities, agreement.....	6963
United States Educational Founda- tion, agreement.....	17872
water buffalo, importance, use, etc.....	17507
Indian Affairs Bureau: designated employees to accept and disburse deposits of student funds in Indian schools— law.....	7305
reports.....	4551, 6020
field and central offices, directory.....	2674
publications, price list.....	11213
releases.....	4944
reports.....	2677, 11216
Indian Claims Commission: appropriations, 1960— hearings.....	5911, 8883
law.....	11961
reports.....	5876, 8713, 8844
associate commissioner, nomina- tion of Arthur V. Watkins.....	12547
Indian Creek, stream reclamation project, benefits to sport fish- ing.....	12691
Indian Creek Mine, mining and mill- ing methods and costs.....	6646
Indian lands: Fort Belknap Reservation, improve land tenure patterns, report.....	14455
leases, increase terms for certain reservations, report.....	16106
transactions, problems and effects of diminishing base, analysis.....	330
see also names of Indian tribes or reservations.	
Indian Ocean: islands, lights and fog signals, list.....	1718, 4935, 14770, 17497
tide tables.....	11861
Indian reservations: Aberdeen, S. Dak. area, general in- formation, digest.....	13563
Billings area group, basic informa- tion digest.....	1150
destruction of boundary or warning signs, make Federal misde- meanor, report.....	12135
stimulate industrial development— hearings.....	4737, 6040
report.....	5992, 7426
views.....	5992, 7426
trespassing to hunt, fish, etc., make Federal misdemeanor, re- port.....	12135
United States, 1948, map.....	4945
see also Standing Rock Reserva- tion—also names of reserva- tions.	
Indian school journal (periodical).....	2676, 11215
Indian schools: day in a day school.....	12780
dormitory life, in-service training pamphlet.....	6316
funds of students, regulate han- dling— law.....	7305
reports.....	4551, 6020
suggested books, annotated list.....	14781
transfers of property to local school districts, remove 20-acre limi- tation, report.....	8834
see also Education.	
Indiana: aeromagnetic survey, interpreta- tion.....	519
census of governments, 1957, State bulletin.....	13832
climate.....	17156
climatic summary, 1931-52.....	8269
climatological data.....	2993, 11546

Do not order from index; see indicated entry

Page 273

# INDEX, 1959

	Entry		Entry
Indiana—Continued		Indonesia—Continued	
Department of Public Welfare, county board members hand-book.....	10586	Communist Party Central Committee, draft theses of general report to be submitted to national congress.....	6344
electric rate book.....	17410	Communist Party Politburo political report to plenary session of Central Committee, Nov. 19, 1958.....	6472
floods of June-July 1957.....	516	economic developments, 1958.....	7779
minerals industry, minerals year-book chapter.....	1990	economy, basic data.....	1653
precipitation data, hourly.....	2096, 11549	foreign investment law.....	1655
southern, growth of upland hardwoods.....	7810	laws relating to fiscal apportionment and regional government, text.....	1821
Wabash Valley water conservation, etc., compact, approval—		surplus agricultural commodities, agreement.....	15205
law.....	15739	Induction (military service), see Military service.	
reports.....	15799, 16070	Industrial Accident Boards and Commissions, International Association of, see International Association of Industrial Accident Boards and Commissions.	
Indiana Grain Cooperative, planning with tomorrow in mind.....	8979	Industrial activities bulletins.....	2687, 11227
Indiana Harbor Belt RR, accident.....	6341	Industrial Administration, Agricultural, see Agricultural Research and Industrial Administration.	
Indianapolis, Ind., electric facilities of area, map.....	16336	Industrial arbitration, State mediation laws and agencies.....	5162
Indians:		Industrial arts, State curriculum guides.....	7667
Aberdeen, S. Dak. area, reservation groups, public health service program.....	13563	Industrial classification, see Industry.	
adult vocational training and employment, amend act, report.....	16052	Industrial College of Armed Forces: catalog, 1959-60.....	16503
American tribes, culture areas and location, map.....	4945	National Defense Resources Conference, 1958-59.....	9155
code of Federal regulations.....	3470	Industrial diseases, see Occupational diseases.	
education, health, etc., questions and answers.....	16483	Industrial hygiene, see Hygiene.	
education statistics, 1958.....	532	Industrial machinery, see Machinery.	
health horizons, dentistry work by PHS.....	15769	Industrial management:	
health program, progress report.....	6914	Korea, North, activities of enterprises, analysis.....	13046
Indian education (periodical).....	12781	manufacturing plants employee food services, management appraisals, nature and extent, vending machines.....	8319
Indian leader (periodical).....	11214	Vietnam, North, basic construction field, financial-accounting aspects.....	9169
Northwest Coast, native brotherhoods, modern intertribal organization,——		errata.....	12801
departmental edition.....	157	Industrial plants, see Metallurgical plants—Plants (Industrial).	
document edition.....	287	Industrial production, see Production.	
nursing careers among American Indians.....	8197	Industrial radioisotope, oversold or underbought?.....	8420
reports.....	8841, 12124	Industrial relations:	
payments for destruction of fishing rights at Celilo Falls, Oreg., exempt from income tax—		cases before N.L.R.B., changing pattern (lecture).....	9405
law.....	12011	developments and analysis, study, July 1957-June 1958.....	9318
present relations of Federal Government to American Indian, committee documents and information.....	4657	developments in labor-management relations (remarks).....	6813
print additional copies, report.....	4572	employee motivation for better paperwork management.....	8093
publications, price lists.....	4944, 5378	employer-employee relations—	
sanitation facilities, PHS to construct, etc.—		managing for better morale.....	4055
hearings.....	8738	members to their unions, Government regulation of internal affairs, selected readings.....	3397
law.....	12007	Granite City, Ill. progress in labor-management relations (address).....	16639
reports.....	7578, 12117	hyphen in labor-management relations (address).....	1106
surplus property donation, hearings.....	17353	improper activities investigations—	
tribes north of Mexico, 1500 A.D., location, map.....	4945	authorization, report.....	3356
see also names of reservations or tribes—also headings beginning Indian.		hearings.....	1569, 3387A, 4743, 7621, 8892, 10046, 14563, 16205, 17354
Indicators:		interim reports.....	12504, 17346
acceleration-type take-off, characteristics.....	9373	proposed findings, report.....	12503
forest land classes in air-photo interpretation of Alaska interior.....	1669	issues before Supreme Court.....	16951
see also Wattmeter-Indicators.			
Indium, extraction from antimonious slag.....	1794		
Indonesia:			
air transport services, agreement.....	17118		
Communist party, 8th plenary session of Central Committee report on use of People's Regional Legislative Councils for defending democracy and people's interests.....	587		



# JANUARY-DECEMBER

	Entry		Entry
Industrial relations—Continued		Industry—Continued	
labor and management cooperation		Communist China—	
(address).....	1966	light industry, selected translation	13183
labor-management bibliography.....	7496	translations.....	17551
labor management legislation program, message from the President.....	3345	community growth and development, your home town's future (address).....	273
labor-management policies best serving people of U.S., collection of excerpts.....	7496	Cottbus Bezirk, Germany.....	862
labor-management reform legislation—		development—	
chronology, 1954-59.....	16642	Soviet, selected translations.....	14876
hearings.....	8730	TVA area in 1958.....	9529
6075A, 7461, 9907, 12286		Union of South Africa.....	1649
labor management relations—		USSR, translation.....	13134
act of 1947, as amended, text.....	1107	Yakutskaya ASSR, problems.....	9203
Sweden, collective bargaining, centralization.....	5174	employees in nonagricultural establishments—	
United States, Government role.....	9303	index, by industry division.....	3821
guide, supplements—		number.....	3822
departmental edition.....	5168, 14972	enterprises, current funds and supplies of equipment and materials.....	13020
document edition.....	4429, 14972	facts for industry (Census Bureau.....	
labor-management reporting and disclosure act of 1959—		214, 1469-71, 2371-73, 4356-60, 5686-99, 7198-7215, 8453-57, 9712-24, 10902-904, 11809-811, 13859-864, 15470-481.	
hearings.....	6075A	facts for industry (Tariff Commission).....	2962, 11510
informational documents.....	17660-665	foreign, national industrial technical centers, list.....	16488
law.....	15632	funds for research and development performance, 1957, preliminary report.....	15120
reports.....	6036	general statistics, errata.....	1461
12236, 14209, 14318, 15990		Government and nuclear power (remarks).....	5655
section by section analysis.....	16219	heavy, development in Kazakhstan during prewar 5 year plans, 1928-40.....	10272
views.....	6036, 12236	improved conservation of resources, bibliography.....	14585
national labor relations act and labor management relations act, study, authorization, report.....	4706	industrial encouragement law of Nicaragua.....	4873
new frontiers in labor-management relations (address).....	7970	industrial representatives, comments on proposed expanded civilian nuclear power program.....	1510
picketing and boycotts, selected readings.....	14333	industrial training programs, Mercer County, N.J.....	15371
problems, progress, etc. (address).....	9270	industry reports.....	41, 7171, 10807-810
rules of NLRB under labor-management relations act, amendments.....	10511	industry surveys.....	2347, 10878
Taft Hartley act—		Korea, North—	
administration problems (addresses).....	6812, 17779	economy of industrial establishments, studies.....	12994, 12997, 13002, 13020, 13027, 13046.
impact upon collective bargaining contracts (addresses).....	5322	enterprises—	
impact upon traditional labor and management procedures (address).....	5323	computation and final reports.....	12994
new amendments (addresses).....	16952	fixed assets and production capacity.....	12997
Industrial resources, attracting capital investment (address).....	13900	original cost and price of industrial products and returns.....	13002
Industrial safety, see Safety of life.		light—	
Industrial security, communist activity in establishments holding defense contracts, investigation, Pittsburgh, Pa., area, hearings.....	8759	Communist China, translations and extracts.....	6436, 14807
see also National security.		work review, 1957-58, China.....	9172
Industrial waste, see Waste products.		midyear review MR series.....	9685-98, 11767, 13824-826
Industrial workers, see Labor.		monopoly or near monopoly industries price notification legislation, hearings.....	17358
Industries, see Industry—also names of industries.		NASA program, research and development opportunities (address).....	5306
Industry:		nonmanufacturing, changing shares of jobs since World War II.....	7980
aids to local enterprise (address).....	8492	North Carolina small industries program.....	15451
American, employment of scientists and engineers, Jan. 1957.....	2075		
atomic industrial progress.....	4336		
bonuses, fulfillment of profit plan as indicator for awarding to management, etc., in Bulgaria.....	1749		
California, shifts in industrial composition.....	13299		
China, selected information on planning and statistical work.....	17524		
Chinese light industry, plans for management by peoples communes.....	10228		

# INDEX, 1959

	Entry		Entry
Industry—Continued		Inflation (finance):	
North Vietnam—		administered price problems, alter-	
relationship to agriculture.....	10295	native public policies—	
three year industrial plan impor-		hearings.....	4747, 8899
tant step in industrial sociali-		administered prices—	
zation.....	6361	hearings.....	3392, 4747, 8899, 17358
nuclear reactors for industrial proc-		additional copies, reports....	12511A,
ess, literature search.....	17263		14277
pamphlets.....	5456-58	report.....	7630
participant training, sharing		views.....	7630
knowledge and skill.....	12787	bright economic future without in-	
planning of costs and profit forma-		flation (address).....	8263
tion, Czechoslovakia.....	1914	critical problem and Governments'	
Poland, development in long-range		means of meeting it (address)....	17028
plan 1961-75.....	692	enemy of growth (address).....	12658
property rights, licensing in		growth and inflation (address)....	269
France.....	14704	investigation of financial condition	
questions and answers, QA-IND		of U.S., hearings, analysis.....	14558
series.....	9543	problem (address).....	17013
radio services, FCC rules and regu-		recent, in U.S., study paper.....	15756
lations.....	7701, 12636, 14616-618	situation in China.....	594
records management opportunities..	6798	steel and machinery prices, study	
releases, preliminary statistics....	2374,	paper.....	17318
	10905	Influence, see Undue influence.	
research and miscellaneous studies,		Influenza:	
1924-58, catalog of technical		death rates by age, color, and sex,	
reports.....	4342	1949-51.....	13476-477
research relations between engi-		specific prophylaxis and treatment,	
neering, educational institutions		USSR study.....	7897
and industrial organiza-		virus, influence of properdin, USSR	
tions.....	9491	study.....	16594
revised classification system effect		Information, see Public information.	
on BLS employment statistics.....	1973	Information Agency, see United	
seasonal, fair labor standards act		States Information Agency.	
regulations.....	1225	Information bulletins, Armed Forces	
Shanghai, condition and problems..	589	Reserve medical officer commis-	
small, plant location factors.....	2131	sioning and residency consid-	
TVA area, development, 1958.....	10620	eration program.....	8922
typical electric bills.....	16328	see also names of departments,	
unemployment, alleviate by area re-		etc., issuing bulletins.	
development—		Information Department, OPA, see	
hearings.....	4737, 5922, 6043	Price Administration Office.	
reports.....	5992, 7426	Information Office, Agriculture Dept.:	
views.....	5992, 7426	appropriations, 1960, hearings...	5909
United States Army in World War		congressional list (series).....	3619
II, economic mobilization.....	6644	list.....	6318
USSR, water supply to industrial		Information Service, VA fact sheet,	
enterprises, damages caused by		IS series.....	6997
limitations.....	1782	Information services:	
see also Manufactures and manu-		overseas film program of USIA... 13653	
facturers—Petroleum—also		PACAF basic bibliographies..... 7113	
names of industries.		Post Office Department, IS se-	
Infantile paralysis, see Poliomyelitis.		ries.....	1142-43,
Infants:			4009, 6893, 8172-73, 10555
hemolytic diseases of newborn,		United States programs, investi-	
treatment and prophylaxis.....	793	gations, authorization, report.. 3300	
mortality, 1955 statistics.....	15492	World trade—	
mortality, U.S., States, Alaska, Ha-		economic reports.....	454-460,
wall, Puerto Rico, Virgin Is-		1649-56, 3529-33, 4872-77,	
lands, national summaries,		6220-27, 7769-97, 9067-72,	
1957.....	16959	10146-150, 12705-708, 14685-	
new-born, morbidity and mortality		693, 16419-420, 17442.	
causes, clinical analysis in ma-		operations reports.....	461-469,
ternity institutions of Mol-		1657-65, 3534-44, 4878-91,	
davian SSR.....	14858	6228, 7798-7801, 9073-82,	
postnatal period—		10151-158, 12709-718, 14694-	
effect of diuretics, USSR study..	17634	706, 16421-423, 17443-445.	
reaction to water, excess and de-		statistical reports.....	470-472,
ficency, USSR study.....	17633	1666-68, 3545-48, 4892-95,	
premature, orienting reaction and		6229-33, 7802-3, 9083-86,	
food motor reflex to light de-		10159-162, 12719-722, 14707-	
velopment, USSR studies.....	1895	709, 16424-426, 17446-452.	
Infection:		Information sources on international	
meningococcal, death rate by age,		travel.....	6217
color and sex, 1949-51.....	5330	Information storage and retrieval	
process, role of allergy, USSR		systems, Soviet developments,	
study.....	7954	information.....	9175,
Infectious diseases, see Contagion and			12903
contagious diseases.		Infrared rays, night vision devices,	
Infirmaries, see Military hospitals.		use in police service, Switzer-	
Inflammable liquids, see Liquids.		land, study.....	6622
Inflammation, organism reaction		Infrared spectrum, see Spectra.	
under antibiotics therapy,		Inga vera, see Guaba.	
USSR study.....	10251	Ingots, see Aluminum—also names of	
		metals.	

# JANUARY-DECEMBER

	Entry
Inhalation, chambers for animal exposure in research, design, etc.	15171
Inheritance and transfer tax: actuarial values for estate and gift tax	9140
deductions for charitable transfers subjected to foreign death tax—	
law	14030
reports	4591, 12421
deductions for property passing to children, hearing	12321
estate and gift tax returns, 1956	9143
estate tax marital deduction, application to widow's allowance, report	15785
gift tax regulations	1727
installment payments of estate tax by small business, law, questions and answers	328
internal revenue code of 1954 subchap. J, advisory group recommendations—	
hearing	5938
final report	5939
summary	9933
repeal, amend Constitution, hearing	313
residents of U.S. possessions, treatment, report	15885
treatment in case of failure to relinquish powers on account of mental disability—	
law	12019
reports	4592, 12416
United States citizens abroad, guide	17506
Inhibition:	
central nervous system, nature of process	10260
conditioned in primates, USSR study	5129
electroencephalographic research on temporary association with dampening of orientation reflex in man, USSR studies	3803
Inhibitors:	
volatile corrosion—	
bibliography and abstracts	17009
inhibitor oils, properties and proposed quality control tests	5368
interactions, compatibility evaluations	4003
Injections:	
injection and combustion of liquid fuels	15362
intratracheal introduction of dust into animals, USSR studies	7938
Injuries:	
carcass bruise damage in cattle, handling conditions and practices involved	13729
coal mines, monthly report	2796, 11340
coal mining, 1953-54, analysis of safety factors, etc.	919
coking industry	13310
analysis of safety factors, etc.	921
experience, 1957	16695
concrete brick and block industry	3825
fuel industries, minerals yearbook chapter	16691
manufacturing, rates	13294
medical statistics—	
acute conditions, United States, July 1957-June 1958	4021
report of surgeon general of Navy, 1958	16681
mineral extractive industries	915
mineral industries, minerals yearbook chapter	17675
oil and gas industry, 1958	13311
persons injured, United States, July 1957-June 1958, statistics	6912

	Entry
Injuries—Continued	
quarrying industry, 1955-56	16699
radiation—	
general principles in treatment of affections, USSR study	10367
skin, complex method of treating, USSR study	14919
therapy origin, USSR study	14920
rates continue to decline, 1957	1974
rates in manufacturing	2752, 11291
sawmills and planing mills, work injuries and injury rates	16656
school lunchroom personnel (address)	16670
work, disabling, in manufacture of cooperage	1971
see also Accidents—Employer's liability and workmen's compensation.	
Ink, chemical resistant silk screen inks for manufacture of printed circuits	16982
see also Thermocolors.	
Ink blot tests, see Mental tests.	
Inland Empire, ponderosa pine, diameter growth prediction tables	6259
Inland waterways:	
Atlantic Coast, commerce, 1957	1607
Great Lakes commerce, 1957	1608
Mississippi River system waterborne commerce, 1958	16271
Inland Waterways Corporation, audit report, 1958	3273
Inlets, see Air inlets (aircraft).	
Inner Mongolia, see Mongolia.	
Inner tubes:	
bicycle, sold to manufacturers, exempt from excise tax, report	15913
Federal supply schedules	7732, 9016
pneumatic—	
aircraft, Federal supply schedule	3482
except aircraft, Federal supply schedule	3483
Inoculation, combined preparations and prospects of their future use, USSR	1956
Inorganic chemistry:	
journal of inorganic chemistry (USSR periodical), abstracts	10821
Soviet abstracts	781, 785, 1852-53, 1858, 1860, 3745, 3748, 3752, 3763, 3776, 6549, 6567, 10291, 10301, 10303, 10821, 13016, 13067, 13086.
Inorganic compounds:	
facts for industry	2371, 10902
X-ray diffraction powder patterns	6800
Inouye, Yaeko, relief	4682, 8573, 11888
Insect pests, see Insects.	
Insect repellents:	
flour beetles, laboratory evaluation of promising chemical compounds	7062
mosquitoes, how to control them on your property	15311
Insect vectors, see Vectors (biological).	
Insecticides:	
aerosols, mosquitoes, how to control them on your property	15311
amend act to include nematocides, etc.	
hearing	12270
law	14002
reports	9854, 12438
baits, to control Mormon crickets	9602
chloroacetic acid esters, tests	7031

# INDEX, 1959

Insecticides—Continued		Entry	Insects—Continued		Entry
control of—			southern pines, identification, control, etc.		6273
clover mites around home		1310	Soviet abstracts		1847, 1849
insect pests of greenhouse vegetables		1295	stock peanuts grown in Georgia, infestation as factor in storing		17200
insects attacking crops and livestock, recommendations, 1959 season		4167	stock peanuts, in-storage treatments for protection from damage, tests		15324
supplementary sheet		13721	transmission of phony peach disease		3083
effects on fish and wildlife, Interior Dept. to continue studies—			vegetables in home gardens		11626
hearings		317	<i>see also</i> Entomology—Pests—also names of insects.		
law		15644	Insigula:		
reports		14488, 15816	Armed Forces (poster)		8377
granular, aircraft distributor for applying, operational characteristics		11596	misuse to indicate Federal agency, amend U.S. Code—		
in-storage treatments of stock peanuts from insect damage, test		15324	law		15656
narcissus bulb fly damage prevention		4173	reports		5990, 12265
plans to increase use in USSR agriculture		14865	Inspection (industrial):		
twig borer, test		3586	export inspection system of Japan		12710
<i>see also</i> Aerosols—Pesticides			Federal meat grading service, manual		13681
Sprays and spraying—also names of insecticides			multi-level continuous sampling procedures and tables		1581
Insectivora, tertiary, comparison of Apheliscus and Phenacodaptes, comparison as pantoletid insectivores		13590	single-level continuous sampling procedures and tables		14586
Insects:			<i>see also</i> names of articles, etc., inspected.		
attack on stored wheat and shelled corn, evaluation of pyrethrum for protection		8318	Inspection (military):		
biologically active substances given off, USSR studies		5126	Air Force inspectors, Air Force manual		1341
cause of degrade in Ozark oaks		10184	inspection and quality control handbook		1581, 14586
control—			sampling procedures and tables, military standard		12581
cantaloup		4172	<i>see also</i> names of substances, objects, etc., inspected.		
greenhouse vegetables		1295	Inspection for maintenance of public works and public utilities		2180-83
peanuts, stored farmers stock		15253	Inspectors, <i>see</i> types of inspectors.		
use of pyrethrum mists and aerosols in tobacco warehouses		11630	Installations (military):		
errata		17199	Air Force—		
cooperative economic insect report		2272, 4157, 10724	air base planning, manuals		5580-81
cotton, research and control, 12th annual conference report		5514	commercial communications service, AF manuals		1338, 3103, 4220
drums and barrels containing non-fat dry milk resistance to invasion		4185	Air Force Department, construction appropriations, 1960, hearings		9896
forests—			Army, continental United States, list		1370, 8384
aerial spraying to eliminate, results		832	Army food-service facilities, engineering and design manual		12605
Arizona, New Mexico, and west Texas		3582	change		16264
central Rocky Mountains, conditions, 1958		7836	construction appropriations, 1960—		
conditions 1958, status report		9108	hearings		9895, 14548
enemies of forests		3559	law		15640
intermountain and northern Rocky Mountain States, 1958		7820	reports		8810, 10007, 12224, 12262, 14317, 14514
Lake States, 1958		7825	construction projects, preparation of cost estimates, engineering manual		7679
Northeast, conditions—			control procedure, Air Force manuals		3098, 4210, 5582
1957		489	general, maintenance, Air Force manuals		133, 3097, 4218, 5579
1958		12746	military and naval construction authorization—		
Pacific Northwest—			hearings		5918, 7605
1957		4896	law		14005
1958		12726	reports		5862, 7363
pest observer		11189	moving costs of tenants, extend time for filing applications—		
intercepted plant pests, list		9593	law		15682
neotropical, distribution of patterns of coagulation of hemolymph		15191	reports		8655, 14492
not known to occur in United States		4157	Navy, shore facilities		15126
peppers, control		7050	ordnance class 2, physical security standards, ORD manual		2098
prevention and control in plants processing dry milk		7007	physical security, field manual		5616
publications, price list		10560	planning and development, Air Force manual		5580-5581
quarantine notices		2283, 10735	planting design, manual		10084, 12603
raisins, cleaner for removing		15255	preventive maintenance, Air Force manual		7094
			storage depots, engineering and design manual		16265



# JANUARY-DECEMBER

	Entry		Entry
Installations (military)—Continued		Insulation—Continued	
storm drainage systems at Naval shore activities, principles, etc., for design, construction, maintenance.....	10640	electrical—Continued	
Wherry housing project acquisition—		materials based on organosilicate resins and lacquers.....	9252
hearing.....	9902	thermal, wood-base materials, application and use in houses.....	6246
report.....	9903	<i>see also</i> Soundproofing.	
Installations (naval), <i>see</i> Installations (military).		Insurance:	
Installment credit:		Canal Zone, business report, 1958.....	11770
commercial banks holding, monthly report.....	2573, 11110	collective bargaining plans, accident and sickness benefits—	
consumer credit, monthly release.....	2572, 11109	departmental edition.....	14973
sales, law in Venezuela.....	6223	document edition.....	14109
Institute of Applied Physics, Academia Sinica, forward leaps at laboratory of semiconductors, Communist China.....	9211	industry, hearings.....	7637
Institute of Biology, Academy of Sciences, USSR, radiological research of Laboratory of Biophysics.....	7934	national banks as agents, statutes affecting powers, compilation.....	12284
Institute of Infectious Diseases AMS, USSR, scientific session results, poliomyelitis.....	7909	publications, price list.....	6905
Institute of Physics imeni P. N. Lebedev, <i>see</i> Physics Institute imeni P. N. Lebedev.		savings accounts, coverage for husband and wife in community property jurisdictions—	
Institute of Physics of the Earth, Academy of Sciences, USSR, seminar on surface seismic waves.....	9253	law.....	11999
Institutions cooperating with ICA in industrial technical cooperation programs description, etc., list by countries.....	12785	reports.....	9873, 12429
<i>see also</i> Mental institutions.		school, managing local program.....	14592
Instruction, <i>see</i> Teaching.		selected plans under collective bargaining—	
Instruction books, electronic equipment, CAA specification.....	224-225	changes, 1954-58.....	5175
Instructors, <i>see</i> Teachers.		digest.....	5169
Instructor's guide IG series.....	11828	departmental edition.....	4430
Instrument approach procedure charts, <i>see</i> Maps and charts.		<i>see also</i> Federal ship mortgage insurance— <i>also</i> types of insurance.	
Instrument flying:		Insurance adjusters, District of Columbia, licensing, report.....	14466
flight-simulators, use for pilot-control problems.....	5296	Insurance companies:	
inadvertent flying sense.....	8383	automobile insuring practices, hearing.....	331
rating, clarification of private pilot experience requirements, civil air regulations amendment.....	12632	automobile sales, financing by manufacturers, prohibit, hearings.....	12554
techniques and procedures—		claims, settlement, agreement with Iceland, 1956, implement—	
Air Force manual.....	129	law.....	14036
jet aircraft, Air Force manual.....	130	reports.....	12253, 12484
Instrument landing, <i>see</i> Landing (aircraft).		life—	
Instrumentation:		District of Columbia, make mortgage loans to 75% of real estate value—	
geophysics and astrophysics.....	149-150, 17225	law.....	15694
Government-owned inventions available for license.....	11865	reports.....	14201, 16141
measurement of structural behavior of concrete gravity structures, engineering manual.....	4785	farm investments.....	48
nuclear reactor technology, analytical chemistry.....	8409	farm-mortgage lending experience.....	46, 3035, 8291, 11601
Instruments:		Income taxation—	
instrument manufacture (USSR periodical), abstracts.....	10811	amend internal revenue code, preliminary working draft of bill.....	4664
instruments and experimental techniques (USSR periodical), abstracts.....	10812	hearings.....	1559, 6053
<i>see also</i> names or types of instruments.		hearings, summary of recommendations.....	15984
Instruments and laboratory equipment, Federal supply schedule.....	410	law.....	9789
Insulation:		reports.....	8337, 4550, 5831, 7594, 8706, 9838
electrical—		views.....	4550, 7594
high temperature ceramic-organic coating on wire.....	8373	nonfarm mortgages investments.....	12641, 14625
high-temperature inorganic coatings on wire.....	4277	mutual life insurance company tax act of 1958, hearings.....	1559
		Insured banks, <i>see</i> Banks and banking.	
		Insured mortgages, <i>see</i> Mortgages.	
		Intaglio printing, thermocolors (hot press inks), USSR study.....	6617
		Integrated operations, Hamilton Farm Bureau Cooperative.....	8977
		Integration in livestock industry.....	3015
		Intellect:	
		intellectual excellence basic source of national strength (address).....	9278
		intellectual mobilization in Vietnam.....	6590
		mental activities, development of automatic performance, USSR study.....	14961

# INDEX, 1959

	Entry		Entry
Intellect—Continued		Interest (psychology) :	
repetition in process of develop-		measures, stability, and their vali-	
ment, USSR study-----	16614	dation for selection and classi-	
Intelligence, <i>see</i> Intellect.		fication-----	13778
Intelligence (military science) :		Interest and usury :	
PACAF basic bibliographies-----	9636	contract interest rates with respect	
<i>see also</i> Military Intelligence.		to urban renewal program on	
Intelligence and Research Bureau, in-		loans and advances executed	
telligence report-----	8232	Jaa. 1-June 30, 1959-----	6990
Intelligence report-----	8232	interest rate ceiling on savings	
Intelligence specialists :		bonds and Treasury bond is-	
air defense artillery operations and		sues, remove, hearings-----	8764
intelligence assistant, MOS		interest rates and financial man-	
proficiency test aid-----	4285, 17242	agement (address)-----	16245
examination announcement, discon-		payment of interest on deposits,	
tinuance notice-----	3225	regulation Q, amdt-----	16348
field artillery operations and intel-		rates in leading countries-----	12659
ligence assistant, MOS		REA and other loans (remarks)-	6927
proficiency test aid-----	4286	savings bonds, increase rate—	
Intelligence tests, <i>see</i> Mental tests.		law-----	15711
Intensification of working aluminum		message from the President-----	15770
electrolysis units, USSR-----	10268	reports-----	14319, 14541, 15891, 15924
Intensity discrimination for narrow		views-----	14319, 14541
bandwidths of noise at various		veterans' guaranteed and direct	
pulse lengths-----	2083	loans, increase interest rate,	
Interaction effects produced by jet		hearings-----	4663
exhausting laterally near base		Interfaith Day, designate 4th Sun-	
of ogive-cylinder model in su- personic main stream-----	3939	day in September of each year, report-----	12430
Interactions between display gain and		Interference (radio), <i>see</i> Radio inter-	
task-induced, stress in manual tracking systems-----	2085	ference.	
Interactions between 4 volatile cor-		Interferometers, ultrashort wave dispersion, aid for rocket mea-	
rosion inhibitors-----	4003	surements of electron concen-	
Interactions between ground-state		tration in ionosphere-----	10259
nitrogen atoms and molecules-----	8082	Intergovernmental Maritime Con-	
Interagency Records Administration		sultative Organization, meeting, etc. (address)-----	4818
Conference, 1958-59 season, meetings-----	6798, 8093, 9389, 13453-455, 15090	Intergovernmental Relations, Ad-	
Interagency training programs—		visory Commission on, <i>see</i> Advisory Commission on In-	
fall 1959-----	13889	tergovernmental Relations.	
spring 1959-----	3228	Intergovernmental Relations Com-	
Inter-American Bar Association, wel-		mission, report, subcommittee study, hearings-----	3325-27
come to members at 11th con- ference, reports-----	5883, 6003	Interior and Insular Affairs Commit-	
Inter-American Children's Institute, increase U.S. contribution, re- ports-----	15875, 16173	tee, House :	
Inter-American Conference, financial aid in preparing facilities, agreement with Ecuador-----	15213	accomplishments, 85th Congress--	4656
Inter-American Development Bank :		calendars-----	2454, 2473, 10985
current status-----	16374	hearings, etc-----	1551, 3330, 5927, 4653-58, 7469, 8735-36, 9912, 12203-298, 14340, 15947, 17355.
establishing, agreement, text-----	8543	Investigations and studies, matters within its jurisdiction—	
participation of United States—		authorization, report-----	3301
appropriations, proposal-----	12336	expenses, report-----	4562
hearings-----	9904, 10038	reports-----	4548, 4611, 4617, 4619, 5837, 5844, 5853, 5900-1, 7361, 7364, 7384-86, 7388-89, 7391, 8633-34, 8642-46, 8651, 8663, 8665, 8670, 8693, 9855, 9865, 12077, 12114, 12120-124, 12127, 12132, 12180, 12196-197, 12204, 12212, 12215, 12220, 12222, 12231-234, 14220, 14226, 14235, 14248-250, 14256-257, 14263-267, 14269, 14300, 14304, 14310, 14454, 15779-780, 15786, 15790, 15811-812, 15814, 15820, 15822, 15824, 15827, 15836, 15849, 15881.
law-----	12024	views-----	8663
message from the President-----	8543	Interior and Insular Affairs Commit-	
reports-----	12176, 12199, 12425	tee, Senate :	
statement on completion of char- ter-----	6986	calendar-----	11005
Inter-American Highway, San Benito to Rama, Nicaragua, construc- tion, completion, appropri- ations, hearing-----	321	hearings, etc-----	330, 3388, 6063-65, 7622-26, 4744, 8893-97, 12541-548, 14564-565, 16206-208.
Inter-American Institute of Agricul- tural Sciences, convention, protocol of amendment, text-----	12345	Investigations and studies, matters within its jurisdiction, author- ization, report-----	4709
Inter-American republics, <i>see</i> Amer- ican republics.			
Inter-American Symposium on Peace- ful Application of Nuclear Energy, proceedings-----	3167		
Intercept controller, <i>see</i> Air defense controller.			
Inter-County Telephone & Telegraph Co., relief-----	8559, 15573, 16038		
Interdepartmental Relations Advisory Commission, <i>see</i> Advisory Commission on Intergovern- mental Relations.			

# JANUARY-DECEMBER

	Entry		Entry
Interior and Insular Affairs Committee, Senate—Continued		Intermountain Forest—Continued	
reports	4720,	research papers	12738, 14722
4725, 6014, 6016-20, 6023-25,		Internal-combustion engines, <i>see</i> Engines (aircraft).	
6039, 8797, 8820-22, 8831, 8853-39, 8841, 8853-65, 9982, 9985,		Internal friction:	
12396, 12455-456, 12460, 12465,		aluminum alloys, plastic deformation study	6776
12475, 12477, 12486-487, 12493-502, 12506, 14415, 14434-435,		core materials used in sandwich construction	4903
14439-443, 14455-457, 14531-533, 16003A, 16046, 16052,		wood, method for rapid measurement of rate of decay of free vibrations	17457
16068-69, 16104-112, 16116-117, 16119, 16121, 16129, 16157-161		Internal performance of 2-dimensional wedge exhaust nozzles	3905
views	12396	Internal revenue:	
Interior Department:		code of Federal regulations	4583,
appropriations, 1960—		6141-44, 6326-27, 7713-14, 9000	
hearings	5911, 8883	code of 1939, amend—	
law (H.R. 5915)	11961	law	15645
law (H.R. 9105)	15629	report	15867
reports	5876, 8713, 8844	code of 1954—	
veto (H.R. 9105)	15774	amend—	
career profiles, brief descriptions	6322	hearings	1559,
code of Federal regulations	6157	6075, 7493, 12321, 12531, 14360, 14567, 15977.	
continue studies of effects on insecticides, etc., on fish and wildlife—		hearings, additional copies, reports	7372, 15908
hearings	317	laws	8522,
law	15644	9789, 12019, 14030, 15645, 15707, 15709, 15711, 16732, 15740.	
report	15816	laws, questions and answers	828
decisions	2680, 11219	preliminary working draft of bill	4664
field office, improving property and records management, workshop, reports, etc.	16485	reports	4550,
functions relative to Federal ship mortgage insurance on fishing vessels, clarify, report	16098	4575, 4583, 4591-92, 5831, 7575, 7594, 8706, 9838, 12416, 12421, 14216, 14219, 14268, 14287, 14319, 14448, 14541, 15784-785, 15791, 15821, 15823, 15826, 15830-831, 15840-841, 15845, 15858-860, 15867, 15876, 15882, 15885-886, 15891, 15895, 15911-913, 15924, 16120, 16128, 16135, 16182.	
inspection and certification of fishery products	429	views	4550,
Library, list of accessions	2683, 11222	7594, 14319, 14541, 15876, 16128	
Missouri River Basin, progress	2681, 11220	cross-references as of Jan. 1, 1959	15978
power marketing agencies, appropriations, 1960, public works, hearings	10027	documentary stamp tax regulations	6325
programs and activities, hearings	5927	subchap. C, advisory group recommendations—	
public land functions, reorganization plan no. 1 of 1959—		hearings	5938
disapproval—		report	5940
report	9885	summary	9932
views	9885	subchap. J, advisory group recommendations—	
hearing	9911	hearings	5938
message from the President	7341	report	5939
report	9888	summary	9933
views	9888	subchap. K, advisory group recommendations, hearings	5938
releases	2682, 11221	tax exemption, pension trust procedures and guides for qualification	7872
report, 1958	1725, 6321	code, revision, hearings, 1958, digest of testimony	15979
research on game fish, migratory marine species—		decisions, weekly	11523
law	15723	excise tax data	14362
reports	15815, 16170	excise tax exemptions granted fishermen	3506
reservoir land acquisition policy of Army and Interior Depts. report	7380	excise tax laws technical changes—	
saline water conversion report, 1958	4950	law	15709
specialized positions, examination announcement	13882	reports	15831, 16120
study anadromous fish in Columbia River Basin, hearing	16209	excise taxes on communications	9141
Under Secretary, nomination of Elmer F. Bennett, hearing	6064	Federal receipts for 1958 and 1959, estimates	15980
Interlocking directorates, bank, under Clayton act, regulation	14643	Federal receipts for 1959 and 1960, estimates	15981
Interlocutory decrees, <i>see</i> Circuit Courts of Appeals.		Federal system, facts and problems, 1959	7320
Intermediate spectrum reactors, <i>see</i> Reactors (atomic).		Federal system and economic stability (remarks)	5449
Intermountain Forest & Range Experiment Station:		internal revenue bulletin	2683A, 11223
annual report, 1958	6258	semiannual	539, 9142, 16198, 17505
misc. pub. series	7820, 14719-721, 16435		
research notes	6259, 7821-23, 12732-737, 16436		

# INDEX, 1959

	Entry		Entry
Internal revenue—Continued		International Bank for Reconstruc-	
tax rate extension act of 1959—		tion and Development—Con-	
hearing	10033	operations and policies, Apr. 1,	
law	11962	1956-Mar. 31, 1958	3285
reports	8696, 9835, 9886,	participation of United States,	
technical amendments act of 1958,	10001	report—	
small business tax legislation,		Jan. 1-June 30, 1958	5811
summary	15983	July 1-Dec. 31, 1958	15768
see also Income tax—Taxation—		International Bridge Authority of	
also names of articles taxed—		Michigan:	
also names of certain taxes,		bridge across St. Marys River, con-	
e.g., Admission tax.		struction, extend time—	
Internal revenue agents, career for		hearings	16198
college graduates	4954, 4956	law	15678
Internal Revenue Service:		reports	14224, 16166
Alcohol and Tobacco Tax Division,		views	16166
organization and functions	6323	International Brotherhood of Boiler-	
circulars	533-534, 4952, 6324	makers, Iron Ship Builders,	
income tax levies on unemployment		Blacksmiths, Forgers, and	
compensation benefits, investi-		Helpers, labor management	
gation, hearings	1550	relations, improper activities	
report, 1958—		investigation, hearings	10046
departmental edition	3621	International Brotherhood of Team-	
document edition	3277	sters, Chauffeurs, Warehouse-	
tax exemption grants to philanthro-		men, and Helpers of America:	
ples, hearings	1549	alliance with other transportation	
see also Chief Counsel for Internal		unions, threat to national	
Revenue Service.		security report	7631
Internal Revenue Taxation Joint		Detroit local 985, improper activi-	
Committee:		ties investigation, hearings	17354
cross references within internal re-		labor-management relations, im-	
venue code of 1954	15978	proper activities investiga-	
digest of testimony in hearings on		tion—	
tax revision, 1958	15979	hearings	1569,
estimates of Federal receipts for		3387A, 4743, 8892, 16205,	17354
1958 and 1959	15980	proposed findings, report	12503
estimate of Federal receipts, 1959		International Civil Aviation Organ-	
and 1960	15981	ization, standard atmosphere	
excise tax data	14362	tables and data to 300 stand-	
renegotiation act of 1951, text as		ard geopotential kilometers,	
amended	15982	U.S. extension	2177
summary of 1958 small business tax		International claims settlement act	
legislation	15983	of 1949, see Claims.	
summary of recommendations on		International coal trade, monthly	
taxation of life insurance com-		inventory	2783
panies	15984	International Conference on Use of	
tax cases decided by Supreme		Radioisotopes in Scientific Re-	
Court	17345	search, proceedings	7942
Internal review, Ordnance Corps		International Congress and Exhibi-	
manual	15144	tion of Electronics and Atomic	
Internal security, see National		Energy:	
security.		5th, U.S. papers	1395
International agreements:		6th, U.S. papers	17266
in force, list	4097	International cooperation:	
treaties and other International		action toward Asian-American co-	
agreements, 1958	10609	operation and understanding,	
see also subjects, names of coun-		conference summary	5416
tries, etc.		agreement with—	
International Association of Govern-		Iran	6966
mental Labor Officials, conven-		Liberia	17128
tion, 1958, excerpts from pro-		Pakistan	6967
ceedings	10398	Turkey	6968
International Association of Indus-		economic cooperation series	1179,
trial Accident Boards and Com-		4067-68, 6944-45, 10591,	15196,
missions, proceedings of an-		17086.	
ual convention, 1958	13280	outer space control, hearings	8752
International Atomic Energy Agency:		reduction of armaments, devote sav-	
cooperation in peaceful application,		ings to works of peace, re-	
agreement	17120	port	12476
progress and programs (address)	15437	review of U.S. foreign economic	
U.S. participation, report 1957—		policy (address)	6944
departmental edition	6949	space exploration, report	1531
document edition	4461	toward common goal, program for	
U.S. participation, report, 1958		economic development (ad-	
departmental edition	17094	dress)	1179
document edition	15772	United States Government's role in	
International Bank for Reconstruc-		international finance (re-	
tion and Development:		marks)	10628
increased capital stock—		International Cooperation Admin-	
background documents	6055	istration:	
conference report	8695	and U.S. voluntary agencies over-	
hearings	4647, 4740	seas programs	14784
law	9780	comments on mutual security pro-	
message from the President	4456	gram	7466
reports	5864, 5872, 5891	contracts notices	2690, 11229
special report	4456		



# JANUARY-DECEMBER

	Entry		Entry
International Cooperation Administration—Continued		International Geophysical Year Special Committee, selected reports presented by USSR at 5th meeting	551
counterpart, funds and foreign currency accounts	2685, 11225	International Health and Medical Research, National Advisory Council for, see National Advisory Council for International Health and Medical Research	
deputy director, nomination of Leonard J. Saccio, hearing	6058	International Health and Medical Research, National Institute for, see National Institute for International Health and Medical Research	
executive privilege to withhold information from GAO, hearings	14570	International Influences on American economy, hearings	15754
field staff, foreign service list	2950, 11497	International Labor Conference: 41st, convention—	
health summary	2686, 11226	recommendations adopted	7339
help for small business	9488	text	4457
industrial program, objectives	7875	42d, convention—	
industrial technical cooperation program, host country institutions	12785	recommendations adopted	7340
language training for foreign aid personnel	7464	text	8544
national industrial technical centers, list	16488	International Labor Organization: conference recommendations	7339-40
operations reports	2688, 11228	convention and recommendations adopted at conference, text	4457, 8544
procurement information bulletins	2691, 11230	International law, relationship to foreign policy of U.S. (address)	5420
releases	2692	International Law, American Society of, see American Society of International Law	
technical cooperation in—		International lending agencies, staff memorandum	4652
agriculture	15196	International Load Lines Convention, modification	15214
health	17086	International Longshoremen's and Warehousemen's Union, alliance with other transportation unions, threat to national security, report	7631
voluntary and non-profit agency technical cooperation contracts, status reports	544, 16490	International Longshoremen's Association, alliance with other transportation unions, threat to national security, report	7631
what it is, what it does	6945	International Medical Research, National Advisory Council for, see National Advisory Council for International Medical Research	
working with people, examples of U.S. technical assistance	4068	International Medical Research, National Institute for, see National Institute for International Medical Research	
International Court of Justice: judges, extending privileges and immunities, hearing	7463, 8743	International Metalworkers' Federation, trade secretariat of metal workers, study	14785
study report	8743	International Monetary and Financial Problems, National Advisory Council on, see National Advisory Council on International Monetary and Financial Problems	
International Criminal Police Organization, study report	8743	International Monetary Fund: increase U.S. quota—	
International Cultural Relations Bureau, functions and organization, hearing	16199	background documents	6055
International Development Association, proposed establishment, report of National Advisory Council on International Monetary and Financial Problems	14365	conference report	8695
International exchanges: organization and programs of State Department, hearing	16199	hearings	4647, 4740
programs under agreements with Soviet Union, Poland, Czechoslovakia, Rumania, Hungary—	16203	law	9780
see also subjects.		message from the President	4456
International fairs, see Fairs		reports	5864, 5872, 5991
International Finance Corporation: operations and policies, Apr. 1, 1956-Mar. 31, 1958	3285	special report	4456
participation of United States, report—		operations and policies, Apr. 1, 1956-Mar. 31, 1958	3285
Jan. 1-June 30, 1958	5811	participation of United States, report—	
July 1-Dec. 31, 1958	15768	Jan. 1-June 30, 1958	5811
International Geophysical Year, 1957-58:		July 1-Dec. 31, 1958	15768
activities report, hearings	5915	International notams	2517
literature translations	10244	notice to airmen service	11050
military point of view	5026		
Polish expedition to Vietnam, literature translations	6381		
reports presented by USSR at 5th meeting of CSAGI	551		
retrospect	13611		
seismological bulletin, special issue	2411		
solar flare studies	5341		
Soviet artificial earth satellites, observations, literature translations	7895		
Soviet bloc information	2339, 10868		
Soviet-bloc literature translations	12868, 14801		
Soviet-bloc translations	3047, 3665, 5088, 6381, 7891-92, 7895, 7900, 7912-13, 9187		
space research program, staff report	4464		
print additional copies, report	4570		
United States post IGY scientific program, hearing	1553		

# INDEX, 1959

	Entry
International organization and conference series.....	4074, 6949-51, 9506-7, 15198-200, 17093-95.
International organizations:	
activities in which U.S. participates, investigation, authorization, report.....	3300
United States contributions, 1958, report.....	7331
International politics, <i>see</i> International relations.	
International postal service:	
directory of international mail, quarterly changes.....	2876, 11415
general information.....	8172
supplement.....	4009
International Public Health and Medical Research year, promote observance, report.....	16130
International Radio Consultative Committee:	
9th plenary assembly, free communication services—	
law.....	5782
reports.....	4726, 5849, 5856
International relations:	
American overseas, hearing.....	6056
arms control and related problems in Europe, handbook.....	10035
bases for peace (remarks).....	4069
Berlin's unique position in international affairs, Army pamphlet.....	4295
briefing on Africa, hearings.....	14334
briefing on current world situation, hearings.....	4649
China, review of international situation (address).....	3663
China's foreign relations, documents published in 1958.....	6377
Chinese Communist articles on world situation.....	4966
code of Federal regulations.....	3469
cultural—	
citizen's role.....	17857
U.S. policies and programs.....	13610
current situation in Far East, hearing.....	14335
disarmament and foreign policy, hearings.....	6057, 7610
economic, Peoples Republic of China with other countries.....	12860
educational exchange program, State Dept. operations report.....	15767
ending cold war (address).....	5419
European common market, effect on American economy and trade (address).....	8493
foreign affairs officer, examination announcement.....	3226
Foreign Agriculture Service programs and foreign relations (address).....	17434
foreign policy briefs.....	2949, 11496
foreign policy developments, highlights, 1958.....	8231
foreign policy of U.S.—	
American foreign policy, current documents, 1956.....	17084
in new age.....	17088
investigation, authorization, reports.....	3347, 3360
scientific developments, potential impact.....	16204
status, hearings.....	6059
study, report.....	6000
foreign policy operations, etc, investigation—	
authorization, report.....	3300
report on findings.....	7420

	Entry
International relations—Continued	
foreign relations of U.S. diplomatic papers—	
1940, general—	
departmental edition.....	10593
document edition.....	9797
1941, British Commonwealth, Near East and Africa—	
departmental edition.....	9504
document edition.....	8528
1941, Europe—	
departmental edition.....	9503
document edition.....	8527
foreign relations of U.S., publications, price list.....	13556
freedom, predominant force (statement).....	4077
general foreign policy series.....	4069, 5418, 6948, 8231, 17088-90, 17855-856.
Geneva test ban negotiations, hearings.....	7611, 16202
German foreign policy documents, 3rd Reich, 1st phase.....	9502, 15195
improve through travel by U.S. citizens, hearings.....	14560
improvement through effective use of food, U.S. policy—	
hearings.....	12535
report.....	14436
international cooperation in space research (address).....	8059
international information and cultural series.....	1194-95, 4072-73, 9505, 13611, 15197, 17092, 17857.
international politics, bibliography.....	2952, 11499
law and foreign policy relationship (address).....	5420
laws and related material, collection.....	3386
Middle East proposals, 3d report.....	1528
military security and foreign relations, standard operating procedures of Corps of Engineers, Army, manual.....	8955
North Korean foreign economic relations, progress and development.....	14816
outer space control, hearings.....	8752
peaceful change (address).....	17097
principles and policies in changing world (address).....	1191
program for peace in Europe (address).....	10594
research—	
bibliographic tools, guide.....	1978
recently completed studies, list.....	2149
studies currently in progress—	
bibliography.....	1189
list.....	13606
review of U.S. foreign economic policy (address).....	6944
right and wrong thinking about American foreign assistance (address).....	8230
role of U.S. in Africa, interests, objectives, and operations (address).....	15201
Soviet foreign economics policies, realities (address).....	6947
statement by George F. Keenan, hearing.....	10037
United States and New Africa (address).....	6952
United States foreign policy study, Foreign Service officers views.....	10042
United States-Latin American relations, report to the President.....	4071
United States policy on control and use of outer space.....	7419
what is wrong with our foreign policy, hearing.....	7616
<i>see also</i> Balance of power.	

# JANUARY-DECEMBER

	Entry		Entry
International Rules of Judicial Procedure Commission:		Interstate and Foreign Commerce Committee, Senate—Continued	
extend—		investigations and studies—con-	
law	15652	textile industry, extension, re-	
reports	12254, 14530	port	4711
International trade, see Commerce—		transportation policies, authori-	
also names or classes of com-		zation report	4717
modities.		reports	4705,
International Trade Fairs Office, re-		4712, 4719, 4726, 4731, 7554-	
leases TF series	2693, 11231	55, 7560, 8808, 8840, 8871,	
International Union of Food and		9983-84, 10004, 10018, 12117-	
Drink Workers' Associations,		119, 12169, 12198-198A, 12206-	
labor study	16491	207, 12211, 12255, 12393-394,	
International Whaling Commission,		12398, 12400, 12412, 12436,	
convention, amendments to		12463-464, 12478, 12451, 12505,	
schedule	8245	14458, 14471-476, 14485-490,	
International Wheat Agreement:		14497-500, 14503, 14505, 14512-	
act of 1949, extend to implement		513, 14527, 16044, 16048, 16051,	
1959 agreement—		16053, 16067, 16079, 16098,	
law	15701	16118, 16126, 16133, 16144,	
reports	14240, 14484	16169-172.	
Interns, see Physicians.		views	4712, 10004,
Interceptors, role in formation of		12255, 19394, 12463, 16079	
behavior in higher animals,		Interstate commerce, see Commerce.	
USSR study	17059	Interstate Commerce, Commission on	
Interparliamentary activities, Senate		State Taxation of, see State	
Members participation, contin-		Taxation of Interstate Com-	
ue services, reports	3348, 3361	merce Commission.	
Interpretation (law), see Law.		Interstate commerce act, see Motor	
Interpretative bulletins, Wage and		carriers—Railroads.	
Hour and Public Contracts Di-		Interstate Commerce Commission:	
visions	1221, 4120; 8267-68, 10632	appropriations, 1960, hearings	5914
Interstate agreements:		decisions (bound reports)	3631,
airport development compacts, con-		7881-82, 17511	
sent of Congress—		decisions (separates)	2694-98, 11233-237
law	12025	functions and activities investiga-	
reports	8871, 12198A	tion—	
compact to conserve oil and gas,		report	1533
consent of Congress—		views	1533
law	14003	miscellaneous nominations, hear-	
reports	8702, 12465	ings	333
New York-New Jersey Transporta-		releases	2723, 11262
tion Agency, compact to cre-		report 1958—	
ate, consent of Congress—		departmental edition	1732
law	15667	document edition	1521
reports	12126, 16132	rules of practice, amendments	4959
Virginia-West Virginia boundary		transport economics, 1958, index	3632
line compact, consent of Con-		Interstate Commission on Potomac	
gress—		River Basin:	
law	15696	appropriations, 1960—	
reports	8714, 16150	hearings	5913, 8884
Interstate and Foreign Commerce		law	14013
Committee, House:		report	7392
activities, 86th Congress, 1st ses-		Interstate compacts, see Interstate	
sion, report	15933	agreements.	
calendars	2455, 10986	Interstate Conference on Labor Sta-	
hearings, etc	311,	tics, proceedings of 15th con-	
1552-54, 3331, 4559-60, 5928,		ference	8009
7470-71, 8737-39, 9913-15,		Interviewers, national health survey,	
12296-298, 14341-344, 14568,		manual	8460
15948-950, 17334.		Interviewing:	
investigations and studies, matters		employee, improving skills of super-	
within its jurisdiction—		visors, conference leader's	
authorization, reports	3293, 15887	guide	877
expenses, report	3310	guides for specific disabilities	8953
reports	1533,	Intestines:	
4558, 4597, 4602, 5849, 5882,		infections, Astrakhan session of	
8701-2, 8705, 9837, 1533, 4602,		Academy of Sciences on prob-	
5882, 14214, 14305, 15781,		lem, USSR study	12942
15808-810, 15926, 15933.		obstruction, death rates for se-	
views	9837	lected causes, 1949-51, by age,	
Interstate and Foreign Commerce		color, and sex	15105
Committee, Senate:		small, course of wounds during rad-	
calendars	2472-73, 11006	iation disease, USSR study	3679
hearings, etc	331-333,	Intoxicants, see Liquors.	
3389-91, 4745-46, 6066-68,		Intracoastal Waterway:	
7627-29, 8898, 10047, 12549-		channel to Port Mansfield, Tex.,	
553, 14566-567, 14569, 16209,		navigation improvement, engi-	
17356-357.		neer report—	
investigations and studies—		departmental edition	8954
matters within its jurisdiction,		document edition	8767
expenses, report	4716	Gulf, channel to Port Mansfield,	
		improvement, report	7595
		Gulf section principal features	3428

# INDEX, 1959

	Entry		Entry
Intracoastal Waterway—Continued		Investments—Continued	
nautical charts, status, national		Chile, foreign investment law and	
atlas sheet.....	11858	regulations.....	4875
Port Allen navigation lock, filling		college and university endowments,	
and emptying system, hy-		survey.....	12593
draulic model investigation.....	8973	District of Columbia, legal invest-	
transportation lines.....	16270	ments for trust funds, list.....	3410,
Intratracheal injections, <i>see</i> Injec-		12589	
tions.		48	
Inventions:		farm, life insurance companies.....	
atomic energy, selected materials.....	5787,	Federal Republic of Germany, re-	
7318		vised regulations.....	1656, 9060
atomic energy patents, hearings.....	12027	foreign, investment in your future	
developing and marketing, infor-		(address).....	8497
mation aid for inventors.....	13541	foreign, investment incentive tax	
Government-owned, available for		act of 1959, hearings.....	14360
license.....		Indonesia, foreign investment law.....	1655
ceramic, paper, rubber, textile,		information for U.S. businessmen—	
wood, and other products and		Ecuador.....	3528
processes.....	11871	Taiwan.....	9065
chemical products and processes.....	11866	investment advisers act of 1940,	
electronic and electrical appa-		amend.....	14554
ratus.....	11869	investment advisers act releases,	
food products and processes.....	11867	SEC.....	2924, 11469
instrumentation.....	11865	message for investors from SEC.....	17071
metal for license processes and		Morocco, investment law.....	3531
apparatus.....	11868	opportunities abroad, bulletins.....	2646,
ordnance.....	11870	11185	
models for exhibitions, liberalize		PACAF basic bibliographies.....	17228
tariff laws, report.....	15825	Polish communication, concrete	
opportunities for small business.....	2937,	step in development of eco-	
11481		nomic research.....	836
wanted by Armed Forces—		private, guaranty, agreement	
list.....	10510	with.....	
supplements.....	1105, 9404	Austria.....	2154
problems cancelled, list.....	16949	Finland.....	15221
Inventories:		Ghana.....	4078
big game for 1957.....	3514	Malaya.....	9520
disposition, Navy administration		Nicaragua.....	10602
manual.....	6865	Sudan.....	8250
Government-owned property in		Tunisia.....	10603
U.S., territories, etc. report.....	12287	private foreign investment—	
livestock and poultry, 1959.....	3024	effect on U.S. employment, prof-	
log deck records, management.....	7823	its, and markets, hearings.....	16196
management by retail farm supply		protection, hearings.....	1558
co-ops.....	7687	small business investment act	
manufacturers.....		amendments of 1959—	
industry surveys.....	2347, 10878	hearings.....	14555
value, 1957, 1958, 1955, and		report.....	16099
1954.....	8444	small business investment act of	
national housing.....	4362-63, 5702-10	1958.....	
preliminary inventories series.....	9390-93,	briefing session sponsored by	
13456, 15091, 16932-935		American Management Associ-	
Invertebrates:		ation.....	3382
collected in Aleutians, 1936-38.....	17430	print additional copies, re-	
morphology, papers.....	9495	port.....	5833
Investigate before you invest.....	17071	policies and procedures (ad-	
Investigations (congressional):		dresses by SBA and SEC offi-	
permanent subcommittee, annual		cials).....	5406
report.....	3379	questions and answers.....	328
Investigators, air safety, examination		Thailand, summary of factors.....	14693
announcement.....	8471, 8475	Ioannou, Maria and sister, relief.....	9952
<i>see also</i> Securities Investigators.		Iodine:	
Investment companies:		desorption from activated charcoal,	
act of 1940—		USSR study.....	9265
amend, hearings.....	14554	minerals yearbook chapter.....	13323
regulation S-X.....	1164	production, etc., 1958.....	8039
releases, SEC.....	2925, 11470	preliminary report.....	5193
rules and regulations.....	4049	Iodine isotopes, thyroid uptake mea-	
small business—		surement, standard system for	
amend act, report.....	16099	universal intercalibration.....	11732
organization, law, questions and		Iodoacetamides, fungus inhibitive	
answers.....	328	properties.....	3984
taxable status, law.....	15740	Iodoacetates, fungus inhibitive prop-	
tax rate on issuance of shares, re-		erties.....	3984
port.....	15858	Ion exchange:	
Investment funds, <i>see</i> Trusts and		materials, theory and practice of	
trustees.		application, USSR study.....	13236
Investment trusts, <i>see</i> Trusts and		separation of metals by single-pass	
trustees.		methods.....	1386
Investments:		separation of rare-earth elements	
capital, attracting (address).....	13900	in bastnaesite.....	17713
capital, in water resources develop-		Ion exchange resins, <i>see</i> Resins.	
ments, 1900-75.....	11769		



# JANUARY-DECEMBER

	Entry		Entry
Ionizing radiation:		Ionosphere—Continued	
aftereffect on vitamin C and carotene content of certain preparations and foodstuffs, USSR studies.....	3720	studies, Soviet bloc IGY trans-lations.....	3665
antenal period of development, electroencephalographic analysis of remote sequelae.....	13240	Ions:	
biological action, questions of non-infection immunology problems, USSR.....	1864	conference on ion and plasma research.....	4257
changes in chemical composition of testes in atrophy, USSR study.....	12969	mechanisms of basic nerve processes, conclusions, USSR study.....	16354
conference on effect on higher divisions of central nervous system, USSR studies.....	5107, 10383	mobilities in selected fused salt systems.....	15402
content of hyaluronidase and histamine in blood.....	622	negative, production and removal in gases.....	11674
ecological study, USSR.....	12900	rocket engine design, thesis.....	13750
effects on—		Iowa:	
animal organism, USSR scientific conference on problem.....	6580	Beard of Social Welfare, handbook for county boards of social welfare.....	10586
antigenic structure of proteins, USSR study.....	14940	census of governments, 1957, State bulletin.....	11784
blood in relation to occupational harmfulness, USSR study.....	13157	climate.....	10635
bone regeneration, USSR.....	617	climatological data.....	2993, 11546
descendants, USSR study.....	13239	credit control in retail farm supply cooperatives.....	7684
human nervous system, USSR study.....	14965	electric house-heating study, report.....	9588
immunity, USSR study.....	14944	electric rate book.....	8996
liver conditions, USSR studies.....	824	forest resources.....	7508
nervous system in animals, USSR study.....	12986	grade A milk marketing by manufacturing co-ops.....	10090
packaging materials used for food products sterilized by irradiation.....	8396	gypsum deposits, mining methods and costs.....	13321
genetic effects of small doses, USSR study.....	10357	Indians on Federal reservations, general information, digest.....	13563
influence on upper branches of central nervous system (conference, USSR).....	6457	land conveyance to city of Keosauqua—	
initial stages of chronic action on organism.....	6597	bearing.....	14328
irradiation effect on corticosterone content in suprarenal blood of rats, USSR studies.....	3736	law.....	14085
meat, use of additives in eliminating undesirable effects of ionizing radiations.....	6920	reports.....	12440, 14292
protective effect of hormones, USSR studies.....	6502	mineral industry, minerals year-book chapters.....	1991, 17688
small doses, functional changes in higher nervous activity of irradiated dogs, USSR study.....	14855	precipitation data, hourly.....	2996, 11549
therapeutic effect, critique of certain fundamental conceptions in radiobiology, USSR study.....	6442	trees, fast-starting species planted in experimental-stand conversion areas.....	12725
total action on animal organisms produces demyelination of central nerve fibers, USSR study.....	14925	western, loess-mantled slopes, origin of steps.....	513
use in preservation of food, Rumania.....	635	IPS confusus, see Beetles.	
see also Radiation.		IRAC, see Interagency Records Administration Conference.	
Ionosphere:		Iran:	
electron concentration, rocket measurements with aid of ultra short wave dispersion interferometer, USSR study.....	10259	atomic energy cooperation for civil uses, Agreement.....	9514
electron densities measurements, breakdown and detuning of transmitting antennas.....	17802	cooperation agreement.....	6966
ionospheric data.....	2848, 11389	establishing business.....	16420
magnetic disturbances and aurorae, planetary distribution, USSR study.....	12916	exports and imports, licensing and exchange controls.....	1657
physics, problems.....	13771	mutual security in action, fact sheet.....	9508
propagation of electromagnetic waves in plasma, theory.....	5638	research, studies currently in progress, bibliography.....	1188
		resources development, key to future (address).....	17096
		sending gift packages to.....	16412
		Iraq:	
		military and economic assistance agreement, termination agreement.....	17119
		research, studies currently in progress, bibliography.....	1188
		Ireland:	
		economy, basis data, Republic of Ireland.....	6222
		living conditions.....	14696
		sailing directions, change.....	4939
		sending gift packages to.....	16413
		Iris (plant):	
		growing in home garden.....	17194
		Iron:	
		alloys—	
		carbon, mechanical properties at low temperatures.....	13571
		Charpy-V transition temperatures.....	17808

# INDEX, 1959

	Entry		Entry
Iron—Continued		Iron isotopes :	
alloys—continued		Fe-55, radionuclide, occurrence in	
chromium and chromium-alumi-		Rongelap Atoll soil.....	4333
num, Charpy-V transition tem-		Fe-59 penetration through placen-	
peratures.....	17808	tal and mammary barriers,	
ferritic iron-base, mechanical		USSR study.....	14941
working and heat treatment,		Iron ores, <i>see</i> Iron—also name of	
use of Charpy-V transition		special iron ore, e.g. Ilmenite.	
temperature test.....	8154	Iron oxides :	
iron-aluminum, mechanical work-		fatty and resin acids used as col-	
ing and heat treatment, use of		lectors.....	16722
Charpy-V transition tempera-		pigments—	
ture test.....	8154	minerals yearbook chapter.....	16704
iron-aluminum base, development		production, etc., 1958.....	13343
for use in gas-cooled reactor		Irradiation, <i>see</i> Gamma rays.—Radi-	
components, progress report.....	7146	ation.—Radiation illness—	
iron-carbon, mechanical proper-		Ultraviolet rays—X-rays.	
ties at low temperatures.....	13572	Irradiation illness, <i>see</i> Radiation	
iron-oxygen, mechanical working		illness.	
and heat treatment, use of		Irrigation :	
Charpy-V transition tempera-		cotton, in Southwest.....	11595
ture test.....	8154	effect on sweetgum blight.....	10184
blast furnace slag production main-		field corn in West.....	98
tained in 1958 despite steel		furrow, soil erosion and its con-	
slowdown.....	10449	trol in arid West.....	11623
catalyst for Fischer-Tropsch syn-		improved methods on western	
thesis, preparation, etc.....	9334	farms.....	17064
chemistry in natural water.....	17494	measuring seepage from channels.....	15331
content and metabolism in bone		National Reclamation Association	
marrow, changes under effects		conference with Senate com-	
of X-rays, USSR study.....	12968	mittee on Interior and Insular	
copper-rich copper-iron alloys, pre-		Affairs, proceedings.....	12542
cipitation processes.....	17255	publications, price list.....	4018
foundries, facts for industry.....	2371, 10902, 11810	quality of surface waters, western	
industry—		U.S., 1955.....	9124
employment and earnings, recent		SCS national engineering hand-	
developments.....	8010	book.....	6937, 8226
German, economic efficiency,		sewage disposal for poultry pro-	
study.....	1792	cessor.....	5545
outlook for 1959 and review of		sprinkler systems, head loss in	
1958.....	1450	quick-coupled aluminum pipe,	
Poland.....	680	study.....	5526
iron-aluminum-oxygen system phase		water quality characteristics.....	83
relationships.....	4274	wells, filters and screens.....	5542
mineral market reports, I.S.P.		<i>see also</i> names of reclamation	
series.....	2817	projects.	
minerals yearbook chapter.....	16703	Irrigation projects, <i>see</i> Reclamation	
ores—		of land—also names of proj-	
accidents in open-pit mines, bene-		ects.	
ficiation plants, and shops,		IS series, Post Office Department. 1142-43,	
Lake Superior district.....	8032	4009, 6893, 8172-73, 10555.	
base of USSR ferrous-metallurgy		Isabella-Kern River project, <i>see</i> Kern	
industry—		River project.	
exerpts.....	1747	Islam, <i>see</i> Mohammedanism.	
path of its growth, 1959-65.....	6414	Island lantern (periodical).....	2889, 11429
concentrates from Olenegorsk.....	817	Islands, <i>see</i> Pacific islands—also	
east Texas, electric-furnaces		names of islands.	
melting, progress report.....	2011	Isleta Pueblo, N. Mex. :	
magnetic core sampling, Bul-		Federal property donation—	
garia.....	3796	law.....	7308
minerals yearbook chapter.....	17678	reports.....	6018, 7364
monthly reports.....	2808, 11353	Isobars, <i>see</i> Atmospheric pressure.	
Nevada, reducing phosphorus		Isocyanates, chemical reactions with	
content, experiments.....	15035	organophosphorus acids 16991, 17807	
production, etc., 1958.....	13340	Isonipealine, regulatory taxes.....	17719
resources, several Bureau of		Iso-promedol, <i>see</i> Promedol.	
Mines research projects.....	13340	Isotopes :	
Tariff Commission report.....	5440	development program.....	7159
Texas, sampling.....	13369	effect on luminescence of blood and	
utilization, Gornaya Shoriya and		bone marrow, USSR study.....	10376
Khakascko-Minusinsk region.....	1912	in microbiology, application of	
production, etc., 1958.....	13341	tracer atoms, conference trans-	
products, identification marking,		actions.....	7137
Federal standard.....	10112	Industrial radioisotopes, oversold or	
scrap—		underbought (remarks).....	8420
minerals yearbook chapter.....	15000	Industrial uses, bibliography.....	17261
monthly report.....	11352	laboratory experiments with radio-	
solid solubilities in beryllium, anal-		isotopes for high school science	
ysis of concentration gradi-		demonstrations.....	196
ents.....	1388	radiation defense in Hungary.....	641
<i>see also</i> Cast iron.—Ferrous metals.		radiation detection, literature	
Iron castings, <i>see</i> Castings.		search.....	8404
Iron ores, <i>see</i> Iron.			

Isotopes—Continued		Entry			Entry
radioactive—			Jackson lock and dam navigation project, land acquisition for national wildlife refuge, report		15900
effect of gases on density of layer of potassium ethyl xanthogenate on surface of gold, silver, copper, and their alloys, USSR		1744	Jacksonville, Ark., population, special census		9711
problems, methods, and techniques, report of International Conference on Use of Radioisotopes in Scientific Research, USSR studies		7942	Jadwin, General Edgar, Dam and Reservoir, see General Edgar Jadwin Dam and Reservoir		
safety technology and labor protection in work, USSR studies		3646	JAG Journal		2724, 3807, 11263
use in petroleum industry		13766	Jamaica, weather stations, agreement with Great Britain		8236
uses in metallurgy, symposium		1374	James, Scotty, claims		9821, 14411, 15579
radioisotopes—			James Lykes (steamship): launching (address)		14627
agriculture, selected references		9665, 15419	James Madison Memorial Commission, establish, report		16063
animal physiology, list of references		7152	Jamestown, Va.: archeological excavations		16964
application in USSR industry		3750	general information		1112
medicine and human physiology, list of references		192	360th anniversary of founding, 1607-1957, report		1739
radionuclides in plankton near Marshall Islands, 1956		3168	Jamestown National Historic Park, archeological excavations		16964
success story of atomic energy (remarks)		5656	Jamestown-Williamsburg-Yorktown Celebration Commission, final report		1739
teaching with radioisotopes, manual of experiments		8422	Japan:		
errata		13813	air transport services, agreement		5427
TNCC 4th meeting technical papers		4332	atomic energy, cooperation for civil uses, agreement		4080, 6958
use—			economic developments		7791
generating electricity		3171	establishing business		3532
physical and biological sciences, literature search		8405	export inspection system		12710
see also names of isotopes, e.g. Sodium isotopes.			farmer cooperatives, growth, etc.		10094
Ispra, Italy, research reactor dedication (address)		5660	foreign trade, 1956-57		1666
Israel:			foreign trade, postwar developments		1211
ambassador, nomination of Ogden R. Reid, hearings		7615	living conditions		465
economic developments, 1958		9068	modern education development		6090
sending gift packages to		16414, 17439	mutual defense assistance—		
surplus agricultural commodities, agreements		1207, 8243	cash contributions by Japan		17863
technical cooperation program agreement		5426	agreement		
Italy:			loan of U.S. naval vessels, agreement		6957
American Commission for Cultural Exchange with Italy, educational exchange program, agreement		13630	northern, sailing directions, change		6309
deciduous fruit industry		9059	parcel post agreement		10604
defense, facilities assistance program, agreement		8246	payment to Government		12513
economic developments, 1958		9071	photographic products industry development, 1954-58		4344, 8434
import tariff system		14701	research, studies currently in progress, bibliography		1183
labor movement in 1956, structure of crisis		7969	research studies on Mongolia		5008
loan of 2 submarines, extension—			restrictive trade practices study team conference, proceedings		10049
hearings		4641, 12525	scientific research—		
law		11958	carbons and organic semi-conductors		3790
reports		4600, 5857, 8819	wide-range amplifier for air shower detector		6403
pharmaceutical regulations		1662	soybean cyst nematode, Heterodera glycines and its injury to soybean plants		13716
surplus agricultural commodities, agreements		5435, 17115	study of Soviet meteorology		1898
television aspects		5929	trade with United States (address)		15548
Item identification, see Identification.			United States Armed Forces maintenance, expenditures reduction, agreement		10606
IUFED, see International Union of Food and Drink Workers' Associations.			use of U.S. soybean		5511
Ivankov-Nikolov, Mikhail, relief		4680	war damage claims against, payment, report		7562
IWA, see International Wheat Agreement.			Japanese beetles, see Beetles.		
			Japanese fisheries based in overseas areas		9045
			Japanese Sea, tectonics of bottom structure according to seismic acoustic data of expedition on Vityaz, USSR studies		3804
			Jay, John, postage stamp, honoring first Chief Justice of Supreme Court (comments)		1141
			Jefferson, Thomas, catalogue of library		9325, 13302

# INDEX, 1959

Entry	Entry
Jefferson County, Mont. : exploration drilling in Boulder batholith, 1954----- 11734 Townsend Valley, geology----- 1708	Job analysis—Continued qualifications requirements, deter- mining by rating Air Force task statements----- 15358
Jefferson County, Oreg., Deschutes area, soil survey report----- 9499	Jobs, <i>see</i> Civil service—Employ- ment—Job analysis—Occupa- tions—Women—Work.
Jefferson National Expansion Mem- orial, general information----- 1113	John A. Blatnik lock, designating, re- port----- 9875
Jefferson's manual, text----- 4669, 5795	John Burdette barite-fluorite deposit, Garrard County, Ky----- 10455
Jeffrey pine, <i>see</i> Pine.	John Day lock and dam : land, convey to Arlington, Oreg.— law----- 15713 report----- 16134
Jencks, Clinton E., testimony, hear- ing----- 15976	John F. Drews (vessel) : readmission to American registry, 15577, 15781, 16041
Jenkins, Hilary W., jr., relief----- 4533, 5985, 7297	John N. Cobb (fishing vessel) : shrimp exploration in central Alas- kan waters, July-Aug. 1958----- 16373
Jersey City, N.J. : occupational wage survey— departmental edition----- 6633 document edition----- 5794	John W. Flannagan Dam and Res- ervoir : designate— law----- 14044 reports----- 9852, 14479
railroad accident----- 9152	Johnson, Arnold, testimony----- 15975
Jerusalem artichokes, growing and handling----- 5535	Johnson, Candace E. L., relief----- 14373
Jet age planning, report of progress and developments----- 3390	Johnson, Charles, jr., labor union im- proper activities investigation, hearings----- 4743, 8892
Jet airplanes, <i>see</i> Airplanes.	Johnson, Courtney, nomination, hear- ings----- 7606
Jet effects on flow over afterbodies in supersonic stream----- 973	Johnson, Daniel N., Journals, 1841- 44----- 6934
Jet engines, <i>see</i> Engines (aircraft).	Johnson, George M., nomination, hearing----- 7639
Jet fuel, <i>see</i> Fuel.	Johnson, Oakley C., testimony of and about, hearing----- 8900
Jet navigation charts, Index----- 11851	Johnson & Johnson, aircraft accident----- 15502
Jet propulsion, free-jet facility, asymmetric supersonic, start- ing and performance char- acteristics----- 13394	Johnston, Gordon L., relief----- 12079, 15564, 16013
Jet stream, <i>see</i> Winds.	Johnstown, Pa., railroad accident----- 6338
Jets : existing, horizontal tail, shock-wave interference at Mach 1.5----- 1005	Join skillful team, Navy Nurse Corps----- 9430
heated propulsive, effects on drag characteristics of related series of afterbodies, preliminary re- sults of investigation at tran- sonic speed----- 13413	Joint Chiefs of Staff, Defense Dept., Chief of Staff of Army, nomi- nation of Lyman L. Lemnitzer, hearing----- 7607
jet effects on drag of conical after- bodies----- 13429	Joint committees, <i>see</i> names of com- mittees.
propulsive jet effect on drag, lift, and stability of 60° delta-wing configuration----- 13419	Joint Publications Research Service : JPRS (DC) series----- 551-602, 1740-66, 3641-78, 4966-5017, 6343-6400, 7888-7914, 9156-95, 10209-249, 12801-906, 14794- 841, 16504-538, 17513-561.
Jetties, groins effect on rate of lit- toral transport----- 17384	JPRS (DC) L series----- 603-659, 1767-1813, 3679-3726, 5018-28, 6401-36, 7915-31, 9196-9205, 10250-274, 12907-990, 14842- 866, 16539-556, 17562-578.
Jettison (aircraft safe drop) test for use in development of fuzes----- 4766	JPRS (NY) series----- 660-792, 1814-61, 3727-86, 5029-97, 6431-6574, 7932-86, 9206-43, 10275-343, 12991-13235, 14867- 909, 16557-591, 17579-630.
Jewel bearings : consumption, etc., 1958----- 9346	JPRS (NY) L series----- 793-873, 1862-1958, 3787-3806, 5098- 5154, 6575-6625, 7937-64, 9244- 66, 10344-388, 13236-276, 14910-967, 16592-634, 17631- 657.
minerals yearbook chapter----- 15001	Joints : austenitic, ultrasonic inspection----- 1165
Jewelry : chrysolites of Yakutiya's kimber- lite pipes as precious stones for industry----- 1790	construction, horizontal in con- crete, methods of preparing----- 16273
industry, midyear review and out- look for 1959----- 9689	resistance-welding techniques, sum- mary report----- 3160
industry, outlook for 1959 and re- view of 1958----- 1409	structural, of aircraft materials, creep behavior under cyclic loads and temperatures----- 16928
Jimenez, Alvaro Rodriguez, <i>see</i> Rod- ríguez Jimenez, Alvaro.	Jomboski, Leokadia, relief----- 12387, 13956, 14181
Jo Dandy area, Colo., chemical ele- ments in Salt Wash member of Morrison formation----- 16466	Jones, Emery C., relief----- 14163
Job analysis : Air Force requirements, rater ten- dencies in estimating quali- fications required for tasks----- 17233	
classification, selection and train- ing, human engineering, 1934- 58 catalog of technical re- ports----- 3174	
Federal meat inspector----- 1282	
job description, publications, price list----- 9460	
mail handlers, amend field service compensation act of 1955, hearing----- 15956	
mechanical drafting and design technology----- 17375	
project square peg----- 8129	



# JANUARY-DECEMBER

	Entry		Entry
Jordan:		Judge Advocate General, Air Force:	
exports and imports, licensing and		activities, manual.....	5584, 8358, 15347
exchange controls.....	463	digest of opinions.....	2483, 11015
preparing shipments to.....	14698	report, Jan. 1-Dec. 31, 1958.....	7654
Josias River:		Judge Advocate General, Army:	
improvement, engineer report—		digest of opinions.....	2483, 11015
departmental edition.....	377	legal service, pamphlets.....	5622-24,
document edition.....	292	7129-30, 8379-82, 9650-51,	
Journals:		11703, 13782-786, 15386.	
cruises of Daniel N. Johnson,		report, Jan. 1-Dec. 31, 1958.....	7654
1841-44.....	6934	Judge Advocate General, Navy:	
executive proceedings of Senate—		digest of opinions.....	2483, 11015
63d Cong. 2d sess.....	12325	JAG Journal.....	2724, 11263
64th Cong. 1st sess.....	12326	report, Jan. 1-Dec. 31, 1958.....	7654
64th Cong., 2d sess.....	15986	Judge Advocates General of Armed	
65th Cong., special and 1st ses-		Forces:	
sion.....	12327	boards of review, court martial re-	
67th Cong. 4th sess.....	12328	ports, holdings, and decisions.....	4760
68th Cong., 1st sess.....	12329	citators and index.....	6034
68th Cong., 2d sess.....	15985	digest of opinions.....	2483, 11015
85th Cong., 2d sess.....	9935-36, 12330	Judges:	
House of Representatives, 85th		circuit and district, additional, re-	
Cong., 2d sess.....	3263	port.....	16179
JAG Journal.....	2724, 11263	district, appointment of law clerks	
journal of research, National Bu-		and secretaries, amend U.S.	
reau of Standards.....	2849,	code.....	
11390-391, 16938-939		law.....	14073
title page, etc., v. 60.....	1100	reports.....	7412, 14517
title page, etc., v. 61.....	9397	district, automatic adjudication	
title page, etc., v. 62.....	15092	and reference in bankruptcy	
National Cancer Institute.....	2851, 11393	cases.....	
Senate, 85th Cong. 2d sess.....	1560	law.....	9784
Ships Bureau.....	2936, 11480	reports.....	5880, 8824
Supreme Court.....	2960, 11508	Federal, recess appointments, report.....	4661
Ukrainian mathematics journal,		Federal, subsistence allowance, in-	
abstracts.....	10873	crease.....	
USSR—		law.....	14001
acoustics, abstracts.....	7177, 10817	reports.....	4582, 12458
analytical chemistry, abstracts.....	10818	International Court of Justice, ex-	
astronomical, abstracts.....	10781	tend privileges and immunities	
experimental and theoretical		accorded to diplomats, hear-	
physics, abstracts.....	7178, 10819	ings.....	7463
general chemistry, abstracts.....	7179,	Juvenile Court of D.C., additional,	
10820		report.....	5998
inorganic chemistry, abstracts.....	10821	retired, official station for travel	
journal of abstracts—		expense purposes—	
electrical engineering ab-		law.....	15677
stracts.....	10813	reports.....	15853, 16180
mathematics abstracts.....	10814	Judgments, see names of courts, etc.,	
mechanics, abstracts.....	10815	rendering judgments—also	
metallurgy, abstracts.....	10816	special subjects.	
physical chemistry, abstracts.....	10822	Judicial Conference of United States:	
political and sociological items,		proceedings of regular annual meet-	
selected.....	1750,	ing—	
3641, 3652-53, 5012, 5017, 6369		departmental edition.....	4130
scientific and applied photog-		document edition.....	4460
raphy and cinematography,		proceedings of special session.....	11556
abstracts.....	10823	report of annual and special ses-	
technical physics, abstracts.....	10824	sions, 1958.....	5471
see also Periodicals.		Judicial Procedure, Advisory Com-	
Journals (machinery), see Bearings		mittee on International Rules of	
(machinery).		of, see Advisory Committee on	
JPRS (DC) series.....	551-602,	International Rules of Judicial	
1740-66, 3641-78, 4960-5017,		Procedure.	
6343-6400, 7888-7914, 9156-95,		Judicial Procedure, Commission on	
10209-249, 12801-906, 14794-		International Rules, see Inter-	
841, 16504-538, 17513-561.		national Rules of Judicial Pro-	
JPRS (DC) L series.....	603-659,	cedure Commission.	
1767-1813, 3679-3726, 5018-28,		Judicial review:	
6401-30, 7915-31, 9196-9205,		deportation and exclusion orders—	
10250-274, 12907-990, 14842-		report.....	8685
866, 16539-556, 17562-578.		views.....	8685
JPRS (NY) series.....	660-792,	Judiciary, see Courts of United States.	
1814-61, 3727-86, 5029-97,		Judiciary Committee, House:	
6431-6574, 7932-36, 9206-43,		calendar.....	2456, 10987
10275-343, 12991-13235, 14867-		defense of members on Un-American	
909, 16537-591, 17579-630.		Activities Committee, report.....	8661
JPRS (NY) L series.....	793-873,	funds, providings report.....	2306
1862-1958, 3787-3806, 5098-		hearings, etc.....	312-313, 1555, 3332, 4661
5154, 6575-6625, 7937-64, 9244-		5929-30, 8740-41, 8743, 9916-18,	
66, 10344-388, 13236-276,		12299-300, 14345-346, 17335	
14910-967, 16592-634, 17631-		investigations and studies, matters	
657.		within its jurisdiction, authori-	
		zation, report.....	3292
		report of antitrust subcommittee.....	8742

# INDEX, 1959

Judiciary Committee, House—Con.	Entry
reports.....	4472-4543, 4552-53, 4556-57, 4582, 4608, 4622, 5818-30, 5834-36, 5843, 5878-81, 5883-85, 7342-57, 7359-60A, 7378, 7382, 7393-95, 7412-14, 7417-18, 8553-8627, 8661-62, 8684-85, 8692, 8694, 8704, 8714, 8784, 9812-29A, 9840-42, 9853, 9880A, 9881-84, 12053-63, 12065-76, 12078-113, 12115, 12126, 12133-135, 12148, 12230, 12254, 12265, 14118-128, 14130, 14134-185, 14187-188, 14190-200, 14205, 14225, 14227-229, 14231, 14236, 14285-286, 14297, 15777-778, 15783, 15793, 15795, 15799-801, 15805-806, 15832, 15835, 15843, 15847, 15853, 15868, 15870, 15883-884, 15892.
views.....	7418, 8684-85, 8692
Judiciary Committee, Senate	
antitrust and monopoly subcommittee, activities, 1958, report.....	4722
calendar.....	2474, 11007
hearings, etc.....	334-340, 1570, 3392-96, 4747-48, 6069-74, 7630-41, 8899-8903, 10048-49, 125554-560, 14570-573, 16210-215, 17358-360.
immigration and naturalization subcommittee work, 85th Congress, report.....	4723
investigations and studies—	
administrative practice and procedure in Federal agencies, authorization, report.....	3376
antitrust and monopoly laws—	
authorization, report.....	3368
expenses, report.....	12511
constitutional amendments, authorization, report.....	3369
constitutional rights, expenses, report.....	3372
Federal judicial system, authorization, report.....	7568
immigration and naturalization—	
authorization, report.....	3367
expenses, report.....	12510
internal security law, etc., administration—	
expenses, report.....	16087
extension report.....	3366
juvenile delinquency, expenses, report.....	3370
national penitentiaries, expenses, report.....	3375
Patent Office and patents, etc., statutes, expenses, report.....	3371
refugees and escapees from communist tyranny, investigation, authorization, report.....	3374
revision and codification of statutes of U.S., expenses, report.....	3375A
trading with the enemy act, administration, expenses, report.....	3373
minority views.....	12399
patents, trademarks, and copyrights subcommittee, accomplishments, report.....	4729A
reports.....	4670-99, 4722-24, 4728, 5946-90, 6003, 6006-7, 6031, 7503-37, 7539-41, 7543, 7552, 7559, 7562, 7565-66, 7579-80, 8772-83, 8785-85, 8798-8805, 8807, 8814, 8823-27, 8850, 8852, 8867, 9945-78, 9965, 10010, 12347-361, 12362-363, 12367-379, 12381-392, 12397, 12399, 12409, 12415, 12430-432, 12457-459, 12461-462, 12511A, 12514, 14366-414, 14416-432, 14515 518, 14529-530, 14545, 15999, 16001-40, 16042-43, 16061, 16070-72, 16074, 16078, 16103, 16182, 16140-156, 16162, 16170-181

Judiciary Committee, Senate—Con.	Entry
staff study.....	327
Juices, see Fruit juices.	
Julliard, Tex., railroad accident.....	16499
Jukeboxes:	
and pinball operations in Lake and County, Ind., and vicinity, improper activities investigation, hearings.....	14563
musical compositions rendition, amend U.S. code, hearings.....	14345
June bugs, white grubs in cereal and forage crops, control.....	7049
Juneau, Alaska, electric facilities of area, map.....	16342
Junior colleges, District of Columbia Teachers College, establish division, report.....	17347
Juniper, see Cedar.	
Jupiter (balloon):	
commemorative stamp poster.....	10554
Jupiter (missile), see Missiles.	
Jurassic period:	
Morrison formation—	
Salt Wash member, Jo Dandy area, Colo., distribution of chemical elements.....	16466
sandstones, electrical properties.....	14745
Jurgens, Yong C., relief.....	5970, 8575, 11920
Jurisdiction, see Criminal jurisdiction.	
Jurisch, Milka, relief.....	9956
Justice Department:	
administrative expenses act, amend—	
law.....	15651
reports.....	15832, 16103
annual report, 1958.....	10389
antitrust consent decree program, report.....	8742
appropriations, 1960—	
hearings.....	7449, 10025
law.....	11971
reports.....	8640, 9998, 12130
Attorney General, memorandums on power of the President to withhold information from Congress.....	8902
Attorney General, to compel production of documentary material in civil antitrust investigations, hearings.....	7632
Attorney General's report on completion in synthetic rubber industry.....	16638
Civil Rights Division head, nomination of W. Wilson White, hearings.....	6071
judicial administration, code of Federal regulations.....	6151
nomination of William P. Rogers as Attorney General, hearing.....	3393
opinions of Attorney General.....	3808, 5155-58, 6626, 7965, 9269, 10390, 16637.
register, 1959.....	874
report under law consenting to interstate compact to conserve oil and gas.....	875
tax and mail privilege grants to philanthropes, hearings.....	1549
Juvenile Court of D.C., additional judges, report.....	5998
Juvenile court:	
effectiveness of system, hearings.....	8901
statistics, 1956.....	15490
statistics, 1957.....	15494
Juvenile delinquency:	
breakdown of authority in home is responsible (address).....	11613
exploitation of minors in interstate confidence racket, hearings.....	7638
institutions, administration and staff training, workshop report.....	15485

# JANUARY-DECEMBER

	Entry		Entry
Juvenile delinquency—Continued		Karatau Mountains, sulvanite from	
investigation—		Elayey-anthroxolite slate hori-	
expenses, report.....	3370	zons.....	1778
hearings.....	337, 8901	Karluk Lake, threespine stickleback	
report on findings.....	6007	life history.....	10130
juvenile court system effectiveness,		Kartsonis, Christos, relief.....	7512,
hearings.....	8901	8596,	11903
prevention and control—		Kasabian, Sirvart, relief.....	8799
hearings.....	5923, 8729, 10051	Katmai, Mount, Alaska, geology	
report.....	16083	area.....	16458
views.....	16083	Katmai National Monument: bio-	
rehabilitation and treatment insti-		logical survey.....	13589
tutions investigation, hearing.....	337	general information.....	16965
specialist positions, examination		Kattegat, lights and fog signals,	
announcement.....	1490	list.....	7867
		Kazakh Academy of Sciences, scien-	
<b>K</b>		tific activity results during	
Kafos, Penelope C., relief.....	4695,	1957.....	1780
8591,	11924	Kazakh Soviet Socialist Republic:	
Kahn, Albert E., testimony of and		feudal-bey survivals and their	
about, hearing.....	8900	overcoming.....	694
Kahului Harbor, modification of proj-		heavy industry development during	
ect, report.....	7596	prewar 5 year plans, 1928-40.....	10272
Kalbab Trail, see Grand Canyon		lead plants, cost price.....	657
National Park.....		public health development prospects	
Kai-wen, Li see Li Kai-wen.....		during 7 year plan for develop-	
Kaiser, William J., relief.....	14162	ment of national economy.....	13242
Kaiser Aluminum and Chemical Corp.,		Kazana, Alice, relief.....	9946, 12067,
labor recruitment in depressed		13912	
rural area.....	886	Kearney, Bernard W., Philippine Leg-	
Kalatschan, Johann, relief.....	4677	ion of Honor, authorize ac-	
Kalfayan, Vartanouche, relief.....	12113,	ceptance.....	12051, 15582
15596,	16028	Keenan, George F., informal meeting	
Kane, Joseph B., jr., relief.....	4518,	with Foreign Relations Com-	
11936,	12355	mittee, hearing.....	10037
Kansas:		Keeping abreast of change in rural	
agricultural conservation hand-		community.....	15306
book.....	1247	Kenai coal field, geology, etc., of	
Big Blue River water apportion-		Homer district, Alaska.....	17486
ment, compact with Nebraska,		Kent County, Tex., Horseshoe Atoll,	
negotiation, consent of Con-		geology.....	16469
gress, report.....	16149	Kentucky:	
census of governments, 1957, State		census of governments, 1957, State	
bulletin.....	13833	bulletin.....	11785
climatological data.....	2993,	climate.....	17157
credit control in retail farm supply		climatological data.....	2993, 11546
cooperatives.....	7684	land conveyance for wildlife con-	
electric rate book.....	12649	servation or recreation, hear-	
minerals industry, minerals year-		ing.....	12539
book chapter.....	1992	mineral industries, minerals year-	
northeast, geology and construction		book chapters.....	1993, 17689
materials (series).....	6284-85,	precipitation data, hourly.....	2996,
100th anniversary of admission as	14746	tree species recommended for strip-	11549
State, commemorative medals,		mine plantations.....	9092
report.....	16077	TVA program activities.....	2164
Pierre shale, radioactivity and		weather stations, decadal cen-	
uranium content.....	4922	sus.....	15246
policemen and firemen social secu-		women, labor laws summary.....	9532
rity coverage, law.....	15649	Keosauqua, Iowa:	
precipitation data, hourly.....	2996,	lands in Iowa, convey to—	
whole stored in country elevators,	11549	hearing.....	14328
cost of shrinkage and grade		law.....	14085
loss.....	5478	reports.....	12440,
wheat stored, shrinkage losses and		Kerlabin, Petr S., Kremlin's espionage	14292
grade changes at bin sites.....	11571	and terror organizations, testi-	
Kansas Centennial Commission,		mony.....	5936
Treasury Dept. to supply and		Kern County, Calif.:	
sell commemorative medals		Tejon-Grapevine area, clay in petro-	
report.....	16077	leum reservoir rocks, effect on	
Kansas City, Kana., electric facilities		permeability.....	5203
of area, map.....	16337	uraniferous bog deposit at Pettit	
Kansu Province, China:		Ranch, geology.....	15416
five-year plan implementation.....	10328	Kern River project, Isabella Reservoir	
national economic plan, 1957, Pro-		administration, application of	
vincial Statistical Bureau's		reclamation laws, opinion of	
report on implementation.....	702	Attorney General.....	5155
people's council, work report.....	13231	Kerogen, constitution in Colorado oil	
Kaolin:		shale, hydrogenolysis study.....	6671
bauxitic, refractory properties of		Kerosene:	
Alabama.....	13371	sales in 1958.....	15023
production, 1957.....	1999	world retail prices and taxes.....	2787, 11331
production, etc., 1958.....	15019	Kessenich, Gregory J., relief of estate.....	14431
		Ketchikan, Alaska, electric facilities	
		of area, map.....	16342
		Ketchum, Edward, relief.....	12094

	Entry		Entry
Key to aviation weather reports.....	9547	King, George H., jr., nomination, bearing.....	6051
Key to meteorological records documentation.....	4123, 9548, 10636, 15245-246, 17160-161	King, Maybell, relief.....	14384
Key West, Fla.: beach erosion control study, engineer report—		King crabs: Bering Sea—	
departmental edition.....	378	possible effects of currents on larvae.....	10137
document edition.....	297	stomach contents analysis for determining food habits.....	10136
Khakassko-Minusinsk region, U.S.S.R., iron ores, over-all utilization.....	1912	chemistry, contribution.....	3494
Khlopin, G. V., role in organization of Scientific Research Sanitary Hygienic Institute in Leningrad.....	7963	explorations from Shumagin Islands to Unalaska, Alaska, summer and fall, 1957.....	9037
Khmer language, see Cambodian language.		moulting female, observations.....	7754
Khorat Plateau, geology and ground water reconnaissance.....	521	Kings Canyon National Park, general information.....	16969
Khrushchev, Nikita: crimes, consultation by Un-American Activities Committee with—		Kings Mills Ordnance Plant, party line fence, sharing construction costs, report.....	9843
Dobriansky, Lev E., and others.....	15974	Kings Mountain National Military Park: land exchange to revise boundaries—	
Lyons, Eugene.....	15974	law.....	9782
Masena, Villa, and Sidaikauskas, Vaclovas.....	17343	reports.....	4594, 8858
shifting balance of world forces, selection of statements and analysis.....	15095	Kings River: baryte raw material in area.....	16456
Khvostov Island geology.....	9114	Pine Flat Dam, spillway crest and flip bucket, prototype tests.....	12619
Kiangsi Province, China: final budget, 1957 and draft budget, 1958, report.....	5086	Kings River project, Pine Flat Reservoir administration, application of reclamation laws, opinion of Attorney General.....	5155
mountain area work, development of economies, etc.....	9229	Kingsbury ordnance plant: credit equipment installation costs against rental for portion under lease to Union Township of La Porte County, Ind.—	
provincial reports.....	10247	law.....	17313
work report of Provincial Party Committee.....	10341	report.....	16187
Kiangsu Province, China, land forms of Tung-ting-shan.....	12838	Kingsford Heights, Ind.: Kingsbury ordnance plant, credit equipment installation costs against rental for portion under lease to Union Township of La Porte County, Ind.—	
Kidneys: diseases, infecting trout.....	7757	law.....	17313
protein composition following damage caused by heavy salts, USSR studies.....	6594	report.....	16187
renal function, ontogenetic changes in reflex regulation, USSR study.....	16628	Kingsport, Tenn., post office dedication speech.....	17020
Kleffer pears, see Pears.		Kiowa Creek, Colo., watershed program evaluation, progress report.....	15281
Kiev Oblast, Ukr SSR, morbidity among rural population, USSR experimental study.....	18238	Kiowa Indians: judgment funds, use—	
Kilns, news and views of kiln drying business.....	483	law.....	15695
Kim Yung Chul, see Harkins, William J.		reports.....	14266, 16109
Kim Yung Shik, see Harkins, Thomas L.		Kiraly, Bela, consultation with staff of Un-American Activities Committee.....	15974
Kimbarovskiy, Mikhail A., biographical sketch.....	1935	Kirghizia, problems of medical cadres, USSR study.....	17653
Kimberlite: chrysolites of Yakutiya's pipes as precious stones for jewelry industry.....	1790	Kirin Province, China, economic plan fulfillment report, 1958.....	16588
diamond crystal enclosed in rocks, Udachnaya pipe, Yakut ASSR.....	1801	Kirovgrad, USSR, concentrating factory, results of lowering reagent consumption.....	10267
Kimbrough, Pauline D., relief.....	4687, 7348, 13980	Kitano, Yasuko, relief.....	4694
Kindergarten enrollments, public schools system, statistics.....	6096	Kitchens: and workroom, Beltsville energy-saving features.....	96
Kinetics: adsorption theory and phenomena in gas-solid phase.....	3118	Army food-service facilities, engineering and design manual.....	12605, 16264
aluminum-uranium diffusional bonding fundamentals, progress report.....	15417	Beltsville energy-saving, design.....	17197
controlled thermonuclear reactions, lectures.....	8412	Kittitas Division, see Yakima project.	
crystallization processes of solutions and melts, USSR study.....	16598	Klamath Indians: immediate payment for marsh, amend termination act—	
flow through microporous media, theory of flow phenomena.....	4310	law.....	14087
hydrolysis and hydration reactions.....	15182	reports.....	14250, 14442
		revolving loan fund use—	
		law.....	9772
		reports.....	6017, 8643



# JANUARY-DECEMBER

	Entry		Entry
Klamath Reservation:		Korea—Continued	
assets, review of appraisal, hear-		southeast coast, sailing directions,	
ing marsh, immediate payment—	7624	changes—	9134
law—	14087	Korean War, 1950-53:	
reports—	14250, 14442	prisoners of war or survivors, re-	
Klapan, Marko, relief—	7541	liefs—	5819, 5988, 7299
Knipp, Howard F., relief—	9829, 14428	Unknown Americans, word-and-	
Knit goods, see Textiles—also names		picture-stories—	7133
of clothing.		veterans, see in main alphabet,	
Knutson, Coys, complaints concern-		Veterans.	
ing irregularities, in election		see also Pensions.	
of Odin Langen, hearings—	3321	Korematsu, Chiyoko, and daughter,	
Kochi, Tatsuo, relief—	7521, 8583, 11894	relief—	5954, 8578, 11891
Koki Sakihara, see Sakihara Koki.		Korn, Manfred, and wife, relief—	12370,
Kolich, Matilda, relief—	8801 13975, 14147	13967, 14142	
Kolyvan, Russia, engineering-geolog-		Kornfeder, Joseph Z., testimony—	16210
ical characteristics of cover		Kostalas, Konstantinos A., relief—	4695
deposits of Tom River—	10264	Kostiuk, Gregory, consultation with	
Kondoleon, Dimitrios, relief—	4538,	staff of Un-American Activi-	
7290, 7510		ties Committee—	15974
Kondolous, James, see Kondoleon,		Kovago, Joseph, consultation with	
Dimitrios.		staff of Un-American Activi-	
Koninklijke Java-China-Paketsvaart		ties Committee—	15974
Lynen, N. V., relief—	14176	Kraemer Mills, Inc., claim—	16002
Kononenko, Constantin, consultation		Krasnogvardeyski plant in next 7	
with staff of Un-American Activi-		years, USSR—	7958
ties Committee—	15974	Krasnoural'sk Copper-Smelting Com-	
Kootenai National Forest, dwarf-		bine, reverberatory furnace,	
mistletoe survey—	12735	material and thermal balances—	10269
Korea:		Krasovskiy, F. N., method of azimuth	
Nodon, periodical on questions of		determination—	17646
labor and wages, USSR—	578	Kremlin, espionage and terror or-	
North (People's Democratic Re-		ganizations testimony of Petr	
public)—		S. Derlabin—	5936
agricultural reforms and coop-		Krtolica, Vulkasin, relief—	12109,
erativization—	14830	15585, 16021	
communications and telecom-		Krypton isotopes, 36 Kr-82, energy	
munications, articles—	10219, 12828	levels—	3157
computation and statistics sys-		Kulski, W. W., statement—	6056
tem of people's economy—	13027	Kum Hung Seeto, see Seeto, Kum	
criminal legislation—	590	Hung.	
economic report—	701,	Kum Wo Seeto, see Seeto, Kum Wo.	
5070-71, 6451, 6501, 10285,		Kumls, Va., railroad accident—	6340
12993, 13105, 13190, 14900,		Kuwait, economic developments,	
17610.		1958—	7780
economy of industrial establish-		Kuznetsov, Anatoly, experiences in	
ments, study—	12994, 12997,	Siberia—	10234
13002, 13020, 13027, 13046		Kwangtung Province, China:	
foreign economic relations, prog-		economic geography—	574
ress and development—	14816	shifting river courses—	13121
industrial enterprises—		Kweichow Province, China, reports on	
computation and final reports—	12994	economic development, etc—	9183
current funds and supplies of		Kyanite:	
equipment and materials—	13020	and related minerals, minerals	
fixed assets and production ca-		yearbook chapter—	10430
capacity—	12997	and related materials, production,	
management activities, analy-		etc., 1958—	8042
sis—	13046	bibliography—	10188
original cost and price of in-		Kymography, roentgen of heart in	
dustrial products and re-		acute experimental radiation	
turns—	13002	sickness—	825
persecution of churches—	8756	Kyung Hee Lee, see Johnson, Can-	
print additional copies, re-		dace E. L.	
port—	14284	Kyung Rai Kim:	
political and sociological report—	13160	consultation with staff of Un-	
political report—	698,	American Activities Commit-	
763, 5069, 6450, 6497, 13004		tee—	8756
secondary technical education—	3666	print additional copies, report—	14284
universities and special schools,			
selected translations—	13219		
Republic—			
exports and imports, licensing			
and exchange controls—	9077		
patent and trademark regula-			
tions—	12715		
selected projects of mutual se-			
curity program, staff report on			
field survey—	8734		
surplus agricultural commodi-			
ties, agreement—	13632		
utilities, claims settlement,			
agreement—	6955		

## L

L series—	246, 1484
Labellarte, Angela M.S., relief—	7518, 8609,
	11914
Labels:	
commercial, copyrighted—	346, 7650
labeling requirements—	
Norway—	4885
Philippines—	14694
Portugal—	462
paper, gummed, Federal standard—	9013

# INDEX, 1959

	Entry
<b>Labor:</b>	
American, activities and problems, materials available for labor attaches	18279
American force, changes taking place (address)	7966
Argentina	16663
automation and technological change effect, hearings, additional copies, report	14281
charts, statistical developments—1953-57	11264
1954-58	2726
China, worker-peasant relations, problems, translations	17535
chronic surplus areas, experience and outlook	16262
code of Federal regulations	6151
construction workers travel, etc. expenses, disallowance for income tax purposes, investigation, hearings	1550
developments abroad	11276
efficiency in formula feed production	8280
employment and education (address)	1963
factory workers' earnings, May 1958—	
BLS report	5167
departmental edition	13290
document edition	12044
foreign labor information	9301, 1663-664
historical and comparative rates, hearings	8525
international studies	14785, 16491
Italian labor movement in 1956, structure of crisis	7969
labor and nonlabor, payments, prices, and output per man-hour, 1947-58, indexes	13292
labor and wages, Korean problems, USSR questions	578
labor force—	
annual report, 1958	8445
development of skills for changing technology (address)	10392
in laboratories, etc., using radioactive materials, safety technology and protection, USSR studies	3646
labor force series—	1466, 7193, 8445, 9707, 11804, 2354, 10885
monthly report	9280
need for skilled workers (address)	9288
projections for U.S., 1960-75—	8535
departmental edition	
document edition	
shifting industrial and occupational composition... during next 10 years (address)	13298
Soviet zones of Germany and Berlin	13868
marital and family characteristics of workers	1466
markets—	
area trends	2497, 11028
developments, major chronic areas	16262
engineering, scientific and technical personnel current conditions	2499, 11030
labor market and employment security	2504, 11035
statistical supplement	2505, 11036
statistical supplement, special issue	2500
wages and related benefits, 19 labor markets, 1957-58—	
departmental edition	6631
document edition	5790
May Day holiday in USSR	14910
migratory labor notes	2730, 11267

	Entry
<b>Labor—Continued</b>	
military and civilian industrial workers, eye protection	142
monthly labor review	2740, 11277
index, v. 80, 1957	888
reprints—	884-888, 3818, 5174-77, 8006-8, 9307-8, 10405, 16665, 17668
North Vietnam, articles	6538
Office of Postmaster of the House, additional laborer, report	4565
older workers, employing, record of employers' experience	8950
output per man-hour—	
comparison, 1947-58, indexes	13292
selected industries, 1919-58, indexes	9305
personal rights guarantee (address)	5159
petroleum worker (USSR periodical), abstracts	8441, 10850
physical and mental, translations on Communist China's economic services	17584
problems in a free society (remarks)	9406
productivity—	
in certain polymetallic mines, basic indicators of effectiveness of highproduction methods, USSR	3691
increasing in fluorite mining in Czechoslovakia	615
nonferrous metallurgy, USSR	7947
publications, price lists	1146, 9465, 17824
pursuit of happiness (address)	16648
recruitment in depressed rural area	886
reform, picketing and boycott aspects (address)	16646-647
seasonally adjusted employees by major industry group, 1947-58	1976
Soviet labor force, implications of new data	5177
survey, city and regency of Sukabumi	599
telephone system construction contracts	4047
Thailand	16664
Turkey, survey	9301
turnover, monthly release	2753, 11288
union elections, labor-management reporting and disclosure act of 1959	17665
USSR industrial productivity levels, comparison with those of principal capitalist countries, study	6530
Vietnam Labor-Youth League, resolution of 6th congress of central executive committee	12832
work stoppages—	
1958, final tabulations	9322
monthly report	2761, 11300
youth, problems (address)	16650
see also Child labor—Employment—Farm labor—Forced labor—Hours of Labor—Manpower—Plantation workers—Unemployed—Wages—Women—also headings beginning Labor.	
Labor (obstetrics):	
stimulation, several principal problems, USSR study	10387
Labor and Public Welfare Committee, Senate:	
additional professional staff and clerical assistants, report	3377
calendar	2475, 11008
hearings, etc.	3897, 6075-75A, 7642, 8904-7, 1050-51, 12561-564, 16216-219

# JANUARY-DECEMBER

	Entry
<b>Labor and Public Welfare Committee, Senate—Continued</b>	
investigations and studies—	
expenses, report.....	16050
National labor relations act, etc., authorization, report.....	4706
problems of aged, authorization, report.....	4710
reports.....	4713-14, 6036, 7561, 7577-78, 8870, 10002, 12402, 12434, 12437, 12453-454, 14433, 14506, 14511, 16054, 16066, 16073, 16075, 16083, 16177, 16183, 16186
views.....	6036, 12402, 12434, 12454, 16083, 16186
<b>Labor attachés:</b>	
biographic register.....	9145
selected references for use.....	13279
<b>Labor bureaus, etc., United States and Canada, directory.....</b>	<b>16651</b>
<b>Labor Department:</b>	
appropriations, 1959, supplemental, law.....	7301
appropriations, 1960—	
hearings.....	5913, 7448, 8884
law.....	14013
reports.....	7392, 9099, 12229
Assistant Secretary for International Affairs, nomination of George C. Lodge, hearing.....	16218
authority of Secretary to establish referral standards for interstate recruitment of farm labor, opinion of Attorney General.....	16637
general information.....	10397
programs (address).....	1961
publications, subject listing, 1958-59.....	17659
releases.....	2728, 11266
report, 1958.....	8627
transfer of functions from Commerce Dept.—	
law.....	14081
reports.....	12464, 14296
<b>Labor disputes, emergency board reports, Pan American World Airways, Inc.....</b>	<b>12600</b>
<i>see also</i> Industrial relations—	
Strikes and lockouts.	
<b>Labor force, <i>see</i> Labor.</b>	
<b>Labor, International Conference, <i>see</i> International Labor Conference.</b>	
<b>Labor laws:</b>	
and their administration, convention proceedings of International Association of Governmental Labor Officials, discussion.....	10398
impact of Taft-Hartley act upon collective bargaining contracts (address).....	5322
labor management legislative program, message from the President.....	3345
labor-management reform legislation, hearings.....	6075A, 7461, 8730, 9907, 12286
new Taft-Hartley amendments (address).....	16952
State, affecting women—	
Alaska.....	13667
California.....	8275
conference, report of proceedings.....	9556
Hawaii.....	13668
Kentucky.....	9552
legislation, 1958.....	8276
Maryland.....	9560
Oregon.....	9561
Pennsylvania.....	8277
Rhode Island.....	2179
State and Federal, digest of legislation.....	5163

	Entry
<b>Labor laws—Continued</b>	
State legislation in 1958.....	1968
State right-to-work laws.....	14968
Turkey.....	6227
young workers, facts.....	17060
Labor legislation, <i>see</i> Labor laws.	
Labor management relations, <i>see</i> Industrial relations.	
Labor-management relations act, <i>see</i> Industrial relations.	
Labor market, <i>see</i> Labor.	
Labor offices, <i>see</i> Labor bureaus, etc.	
Labor Officials, Governmental International Association, <i>see</i> International Association of Governmental Labor Officials.	
Labor organizations, <i>see</i> Labor unions.	
Labor relations, <i>see</i> Industrial relations.	
Labor standards:	
fair labor standards act—	
agriculture, processing of agricultural products, etc.....	1221
amend, hearings.....	308, 12364
annulment or withdrawal of employment certificates.....	1226
application to—	
automotive parts wholesaling.....	5457
Guam.....	4119
poultry and egg business.....	5458
waste material industry, questions and answers.....	9543
wholesale grocery business.....	5456
bona fide thrift or savings plan, requirements.....	1227
child labor.....	10632
employment—	
handicapped persons.....	1224, 15237
learners.....	1222
messengers.....	1223
student workers.....	5459
enforcement problems (address).....	1960
exemption of seafood, etc.....	8268
hours worked, interpretative bulletin.....	9542
methods of payment.....	8267
overtime pay, computing.....	1228
overtime pay, computing, interpretations of terms used.....	5455
seasonal industries.....	1225
talent fees, defining term.....	1229
text.....	9541
value and worth (address).....	1060
wage order procedure for Puerto Rico, Virgin Islands, and American Samoa.....	4121
written assurance with respect to hot goods.....	4120
minimum wage rates established for Puerto Rico and Virgin Islands, biennial reviews, hearings.....	308
rights of union members, labor-management reporting and disclosure act of 1959.....	17662
safety standards.....	2732, 11269
union members, for office holding, labor-management reporting and disclosure act of 1959.....	17663
Labor Standards Bureau:	
bulletins.....	879, 5162-63, 6628, 10398, 13280, 14968-970, 16651-653, 17666
leaflets.....	5165, 7972-74
releases.....	2734, 11271
what it is, how it works, what it does.....	1967
Labor Statistics Bureau:	
announcements of reports published.....	2746, 11283
BLS report series.....	880, 5167, 6629-30, 14971, 16656, 17067

# INDEX, 1959

	Entry		Entry
<b>Labor Statistics Bureau—Continued</b>		<b>Labor unions—Continued</b>	
bulletins.....	881-882	racketeering, and problems of law enforcement officials (address).....	1962
3811-16, 5168-73, 6631-33, 7975-79, 9286-91, 10403-404, 13284-291, 14972-974, 16657-661.		reporting and disclosure of transactions and practices, etc.—	15632
commissioner, nomination of Ewan Clague, hearing.....	12563	law.....	6036, 12236, 14209, 14318, 15990
publications.....	2742, 11279	reports.....	6036, 12236, 14209, 15990
releases.....	11292	section by section analysis.....	6036, 12236
training program, report, 1959.....	10668	views.....	6036, 12236
<b>Labor Statistics, Interstate Conference on, see Interstate Conferences on Labor Statistics.</b>		reports required from labor organizations, labor-management reporting and disclosure act of 1959.....	17660
<b>Labor turnover:</b>		reports required from labor relations consultants, labor-management reporting and disclosure act of 1959.....	17661
measurement.....	9320	right of employees to join labor unions (addresses).....	6815, 10512
rates per 100 employees.....		standards for office holding, labor-management reporting and disclosure act of 1959.....	17664
apparel and other finished textile products.....	7983	trusteeships, required reports and legal standards, labor-management reporting and disclosure act of 1959.....	17664
chemicals and allied products.....	7984	union constitution provisions, election and tenure of national and international officers, 1958—	
electrical machinery.....	7985	departmental edition.....	3813
fabricated metal products.....	7986	document edition.....	3269
food and kindred products.....	7987	union elections, labor-management reporting and disclosure act of 1959.....	17665
furniture and fixtures.....	7988	union-security provisions in agreements, 1954.....	16669
instruments and related products.....	7989	union shops and hiring halls (addresses).....	8108
leather and leather products.....	7990	use of picketing and boycotts, selected readings.....	14833
lumber and wood products.....	7991	violation of Government laws and regulations, hearing.....	4742
machinery, except electrical.....	7992	workers movement in Philippines.....	1756
manufacturing division.....	7993	<b>World Federation of Trade Unions, directory.....</b>	<b>9146</b>
metal mining.....	7994	your union and its role in preserving the American way (address).....	9407
miscellaneous manufacturing industries.....	7995	<i>see also names of unions.</i>	
paper and allied products.....	7996	<b>Laboratories:</b>	
petroleum and coal products.....	7998	Agriculture Department, their 1st birthday (address).....	59
primary metal industries.....	7997	Fish and Wildlife Service, research.....	425, 430, 433, 7743, 9038, 14661, 16375, 16378
rubber products.....	7999	laboratory evaluation of promising compounds as repellents to flour beetles, <i>Tribolium</i> spp....	7062
stone, clay and glass products.....	8000	WADC, automatic data recording devices, research.....	13559
textile-mill products.....	8001	<i>see also Chemical laboratories—Research laboratories—also names of laboratories or places where located.</i>	
tobacco manufactures.....	8002	<b>Laboratory apparatus and supplies:</b>	
transportation equipment.....	8003	chemical, Soviet abstracts.....	770-771, 773, 1828, 1851, 1858, 3746, 3749, 3751, 3761, 3776-77, 6550, 10316, 10321, 13016, 13106, 13118, 13133.
<b>Labor unions:</b>		chemistry, theory, construction and application, Soviet abstracts.....	662
American trade union movement—		Federal supply schedule.....	410
growth.....	9304	instruments and equipment, Federal supply schedule.....	3484
structure.....	9317	<b>Laboratory experiments with radioisotopes for high school science demonstrations.....</b>	<b>196</b>
collective bargaining development, contracts, paid holiday provisions—	9294	<b>Laboratory tests of refrigerator cars of perishable foods.....</b>	<b>17201</b>
departmental edition.....	7979	Laborers, <i>see</i> Farm labor—Labor.	
document edition.....	7328	Lac du Flambeau band of Chippewa Indians, <i>see</i> Chippewa Indians.	
conventions, 1959.....	10407		
directory, national and international, 1957, additions, etc.....	7975		
European, development of research and engineering services, seminar.....	16662		
fringe benefits under collective bargaining.....	9302		
Government regulation and union responsibility (remarks).....	5320		
Italian labor movement in 1956, structure of crisis.....	7969		
labor-management reform legislation, hearings.....	7461, 8730, 9907, 12286		
leaders, improper activities, investigation.....	1569, 3387A, 4743, 8892, 10046, 14563, 16205, 17354		
hearings.....	12504, 9284, 9306		
interim reports.....	8397		
local, administration and government.....	17662		
lumber industry.....	9285		
members, Government regulation of internal affairs affecting rights, selected readings.....	10394		
members, rights, labor-management reporting and disclosure act of 1959.....	7631		
national, administration and government.....			
public support to help accomplish worthy objectives (address).....			
racketeer and communist dominated in transportation field, alliance, threat to national security, report.....			



	Entry
Lackawaxen River and Valley: General Edgar Jadwin Dam and Reservoir, designating— law.....	15899 16175
Lacquer and lacquering: facts for industry.....	2371, 9721, 10902
steel sampling tubes for protection against corrosion.....	14606
vinyl-lacquer coating for interior of military star pipeline tubing.....	4789
Lactarene, <i>see</i> Caselin.	
Lactic acid, X-ray irradiation, influ- ence on blood flowing into and out of brain, USSR study.....	13259
Ladders, classification bulletin.....	13539
Ladies of Grand Army of the Repub- lic: incorporate— law.....	9779 8552
reports.....	5951, 8552
La Feria division, <i>see</i> Rio Grande pro- ject.	
LaFollette, Robert M., sr., portrait unveiling, proceedings.....	5942
La Grange Park, Ill., population, spe- cial census.....	208
Laguna Pueblo, N. Mex., constitution and bylaws, amended.....	10196
La Habra, Calif., population, special census.....	7195
Lalca, Soñja, relief.....	4084, 8585, 11896
Laissez faire: free enterprise in economic growth (address).....	15544
free enterprise system and progress for farmers (talk).....	60, 62, 64-67, 71, 73, 75
Lake, <i>see</i> name of lake, except when occurring as first word of name of town, etc.	
Lake Charles, La.: aircraft accident in Gulf of Mexico.....	13870 8965
Lake County, Ind., jukebox and pin- ball operations, improper ac- tivities, investigation, hear- ings.....	14563
Lake Mary quadrangle, Iron County, Mich., geology.....	16461
Lake Mend National Recreation Area, general information.....	1114
Lake States, <i>see</i> Great Lake States.	
Lake States Forest Experiment Sta- tion: annual report, 1958.....	6235
station papers.....	3565, 7824-26, 14723- 724, 17160
technical notes.....	3566-73, 6260-61, 7827- 31, 14725-733, 17461-466
Lakes: climatic review.....	2989, 11541
Columbia River basin, change of storage.....	2660, 11199
<i>see also</i> names of lakes.	
Lamb: promotional campaign in Cleveland, Ohio, results.....	3065
purchase specification requirements approved by USDA.....	13692
Lambs: brooder and ewe feeder, combina- tion, farm building plan.....	17203
crop, 1958.....	7012
crop, 1959.....	13697
direct shipments into selected North Central States by State or origin, 1941-57.....	3080
early lamb situation, May 1, 1959.....	9578
feeding situation, Nov. 1, 1958.....	3023
on feed, Jan. 1, 1959.....	1276
Laminar flow, <i>see</i> Flow.	
Laminated construction, aircraft components, publications, list.....	9103

	Entry
Laminated materials: glass-fabric-base epoxy, effect of tensile and compressive pre- loading.....	14716
glass-fabric facings and honey- comb cores, compressive buck- ling curves for simply sup- ported sandwich panels.....	7816
glass-reinforced polyester lami- nates— effect of prolonged stress.....	8164
use of orlon felt as surface over- lay, evaluation report.....	8214
preservation of documents by lami- nation.....	17770
waterproof 2-way stretch, devel- opment and evaluation of fabrics.....	4100
<i>see also</i> Materials—Plastics.	
Lampasas River: designating dam as Stillhouse Hol- low Dam— law.....	15672 14544
reports.....	14237, 14544
Lampreys, sea, Cayuga Lake, life history.....	14663
Lamps, Federal supply schedule.....	12667
<i>see also</i> Electric lamps.	
Land: acquisition for wildlife refuge at Jackson lock and dam naviga- tion project, Ala., report.....	15900
California, cooperative wildland re- search program.....	6240
conserving our legacy (talk).....	8224
cropland acquired by eminent do- main, preservation of acreage allocments, report.....	15854
cropland in conservation reserve, report.....	7275
leveling, engineering handbook.....	8226
major uses and patterns in United States, description and graphic analysis.....	11622
major uses in United States, na- tional atlas sheet.....	11411, 11622
ownership in Great Plains, prelim- inary report.....	11599
planning, Washington metropolitan area.....	3400
settlement opportunities on recla- mation projects.....	1160
treatment measures handbook.....	12739
use, changing patterns in West (re- marks).....	16408
utilization in Chung-Ming Tao, pre- liminary investigation report.....	12881
vicinity of Federal penal or cor- rectional institution, Attorney General to acquire for protec- tion of inmates— law.....	15651 16103
reports.....	15832, 16103
water and land problems.....	17082
<i>see also</i> Forests and forestry— Public lands—Soil conserva- tion.	
Land banks, <i>see</i> Federal land banks.	
Land forms of Chang-Chu-Kou in Ching Pien of Northern Shensi.....	14707
Land-grant colleges: and State universities, centennial of establishment, commission to commemorate, reports.....	4608, 8826
workers in agricultural subjects, list.....	7046
Land Management Bureau: conservation program, operations and responsibilities (re- marks).....	6635
functions, programs, etc. (re- marks).....	9323
information bulletin.....	906

# INDEX, 1959

	Entry		Entry
Land Management Bureau—Con.		Language and languages—Continued	
records improvement project, his-		foreign—Continued	
tory.....	17670	laboratories in schools and col-	
releases.....	11302	leges.....	360
timber sales.....	6637	mechanical translation by high	
Land reform:		speed electronic computers,	
in Asiatic people's democratic		field survey.....	6878
countries.....	563	proficiency standards for train-	
Vietnam, first state farms since		ing Foreign Service personnel,	
agrarian reform.....	3671	establish, hearing.....	10036
Land slugs and snails and their con-		speaking ability, measurement	
trol.....	3055	and prediction.....	9566
Land tenure:		linguistics and machine transla-	
farm tenure, 1954, statistical sum-		tion, Soviet developments.....	17559
mary.....	84	manipulation, communist weapon	
Fort Belknap Reservation, improve		for world domination, consul-	
patterns, report.....	14455	tation by Un-American Activ-	
Landing (aircraft):		ities Committee with Stefan	
airplane landing mats and mem-		T. Possony.....	7488
branes, braking and landing		mathematical linguistics confer-	
tests.....	16923	ence, USSR, abstracts.....	16505
approaches, flight investigation of		national defense education act of	
automatic throttle control.....	5288	1958—	
carrier approach speeds, compari-		administration, hearings.....	5924
son from flight tests and pilot-		guide.....	3420
operated simulator, studies.....	16757	instruction development pro-	
carrier-type, factors affecting		gram.....	371
choice of minimum approach		orthography, development of auto-	
speed for swept-wing jet		matic performance of mental	
fighter airplane.....	16860	activities, USSR study.....	14961
hydrodynamic-impact theory for		see also names of languages.	
loads and motions.....	5282	Languages School, Foreign Service	
hydro-ski landing impact reduction		Institute, catalog and general	
by mounting on shock ab-		information.....	6943
sorbers.....	6728	Lanthanum, heats of formation of	
instrument landing system, CAA		lanthanum chloride, lantha-	
specification—		num sulfate, and lanthanum	
antenna.....	243	sulfate enneahydrate.....	5207
rectifiers power supply.....	238	Lanthanum hexaboride, thermionic	
transmitter, marker beacon.....	226	emission properties, effect of	
jet airplanes, aerodynamic charac-		adsorbed nitrogen.....	6760
teristics.....	16871	Lanz, Pedro L. Diaz, see Diaz Lanz,	
lateral oscillatory damping ac-		Pedro L.	
ceptable in approach.....	16866	Laos:	
low-speed handling qualities of tail-		mutual security in action, fact	
less delta-wing fighter airplane.....	16865	sheet.....	13607
low speed yawed-rolling charac-		United States aid program and op-	
teristics of tires.....	3934	erations—	
rough-water ditching, jet trans-		hearings.....	12294
port model investigation.....	16912	report.....	9851
seaplane in waves, hydro-skis as		Lard, production, United States, by	
load-alleviation devices, tank		month, 1958.....	7011
investigation.....	1066	Larvae, final instar of Ichneu-	
VOLSCAN model GSN-3 (XD-1).....	1620	monidae, description and clas-	
water impact, effects on orbital		sification.....	16953
capsule from standpoint of oc-		see also Wireworms—also names	
cupant protection.....	16884	of insects, etc.	
Landing fields, see Heliports.		Lashley, Kenneth, Jr., relief.....	8772
Landing gear:		Lateral control, see Aircraft.	
ground reaction forces of transport		Lateral stability, see Stability of	
airplane taxiing over ob-		aircraft.	
stacles, measurement.....	16782	Latin America:	
static load rating of 20,000 pounds,		agricultural economies of 20 re-	
maximum spin-up coefficients		publics.....	7763
of friction obtained during		American trade expansion oppor-	
tests.....	3942	tunities (address).....	8495
Landing strips, see Runways (aero-		economic development, aspects (re-	
navics).		marks).....	5448
Landscape architects, examination		folk music, etc., catalog of phono-	
announcement.....	3209	graph records.....	6639
Landscape gardening, planting de-		names and places, geography and	
sign, manual.....	12630	general information.....	17858
Langen, Odlin, contested election,		trade relations with U.S. (address).....	8499
hearings.....	3321	trade with U.S. shipping etc. (re-	
Langley Field, Va., Langley 8-foot		marks).....	14628
transonic tunnel, with slotted		U.S. agricultural trade.....	9061
test section, characteristics.....	13384	United States-Latin American re-	
Langley Research Center, releases.....	2845	lations, report to the President	
Language and languages:		United States relations, report.....	7420
foreign—		United States trade.....	14707, 17448
Federal Government's training		see also American Republics.	
programs, report.....	6022	Latitude, tables for air navigation.....	1724,
in elementary school, references.....	5934	4942	
in secondary school, prereading			
instructions.....	8940		

# JANUARY-DECEMBER

	Entry		Entry
Lattice theories, dipole fields and normal modes in magnetic garnet <i>see also</i> Crystal lattices.	16990	Lawyers—Continued	
Latvia, Academy of Sciences, synthesis and study of new therapeutic preparations, USSR study.	6579	fees paid in bankruptcy proceedings, examination by court, report.	15835
Laundry and laundries, design and construction of laundries, engineering manual.	12606	military, careers in Air Force. <i>see also</i> Public defenders.	16635
Laur training area, claims arising out of maneuvers, agreement with Philippines.	8240	Layout, <i>see</i> Plants (industrial).	
Laurel, California, leaf disease outbreaks, 1958.	1674	Leaching:	
Lava Beds National Monument, general information.	6830	lead-zinc at Ust' Kamenogorsk combine, results of periodical processing, USSR.	1799
La Venta, Tabasco:		manganese ore by dithionite-process pilot plant.	16729
excavations, 1955.		manganese ores, acid-ferrous sulfate process.	5204
departmental edition.	5611	zinc from fuming sublimate, USSR study.	10270
document edition.	5789	Lead:	
Law:		cost price in Kazakhstan plants.	657
collection of laws of People's Republic of China (periodical), contents, July-Dec. 1958.	17536	crude, decoppering, new method, USSR.	1800
Federal, effect on State, establish rules of interpretation—		crystalline metasillate, heat and free energy of formation data.	8049
hearing.	8740	deposits—	
reports.	8684	electrical-resistivity surveys, Racine-Spurgeon area, Newton County, Mo.	17706
views.	8034	Ross Basin-Lake Como area, San Juan County, Colo., exploration.	16732
how our laws are made.	9805	economizing in national economy of USSR, conference on problem.	658
reprint as document, report.	7365	Industry—	
Judge Advocate legal service, Army pamphlets 5622-24, 7129-30, 8379-82, 9650-51, 11703, 13782-786, 15386.		in 1958, preliminary.	5196
legal books, PACAF basic bibliographies.	3117	monthly report.	2809, 11354
procurement legal service, Army pamphlets, 164, 1371, 3146-47, 4297-98, 5626-27, 8385, 11706, 13787, 15389, 17244.		Tariff Commission to investigate, report.	16055
publications, price list.	4016	lead-alpha age determinations of accessory minerals of igneous rocks, 1953-57.	17489
slip laws (private), 86th Congress.	5775, 7284-7300, 9758-69, 11800-949, 13910-993, 15559-610.	lead-alpha ages of Mesozoic batholiths of western North America.	511
slip laws (public), 86th Congress.	4421, 5776-84, 7301-15, 8511-22, 9770-94, 11950-12025, 13994-14100, 15611-747, 17313.	lead-zinc leaching process at Ust' Kamenogorsk combine, results of periodical processing, USSR.	1709
<i>see also</i> Codes of law—Military law—also names of countries and States—also subjects.		metallurgy, question on electro-smelting.	652
Law clerks:		mine production—	
appointment by district judges, amend U.S. Code—		domestic mines, stabilizing, hearings.	3330
law.	14073	in Pend Oreille and Stevens Counties, 1902-56.	1956
reports.	7412, 14517	monthly report.	2814, 11359
Law enforcement:		1958, preliminary annual figures.	3864
activities affecting small business, report.	3290	minerals yearbook chapter.	17679
root problem of our generation, (address).	1962	Mines Bureau research program.	15010, 15016
Law suits, <i>see</i> Actions at law.		monthly report.	2809
Lawing, Alaska, haydite raw material in area.	16456	open pit mining, USSR.	5144
Lawns, establishment, maintenance, renovation and problems.	15309	pigments, production, etc., 1958.	13352, 10510
Lawrence, Mass.:		production, etc., 1958.	15010
occupational survey—		secondary, production, etc., 1958.	13335
departmental edition.	16657	Lead isotopes, tables for calculating geologic age.	7856
document edition.	15761	Lead monoxide, <i>see</i> Litharge.	
Lawrence County, Tenn., soil survey.	13592	Lead poisoning, recognition in children.	1153
Lawrynenko, Jurij, consultation with staff of Un-American Activities Committee.	15974	Lead sulfides:	
Laws, <i>see</i> Codes of law—Labor laws—Law—also subjects.		concentration in atmospheric air, hygienic basis for protection, USSR study.	12975
Lawyers:		experiments in concentrating slime.	5206
attorney's part in adoption.	5714	Leaders wanted (address).	8498
communist, legal subversion, report.	4555	Leadership:	
additional copies, report.	4626	Air Force working leaders—	
		developing workers' abilities—	
		identifying training needs.	4241
		inducting new worker.	4240
		pattern for instruction.	4242
		practicing instruction techniques (workshop).	4243

# INDEX, 1959

	Entry		Entry
<b>Leadership—Continued</b>		<b>Leases—Continued</b>	
Air Force working leaders—Con.		oil and gas—continued	
improving personal relations—		validate, extend, etc.—	14564
ships—		hearings—	12473
ability development—	4250	report—	
application of problem solving		Oregon and California Railroad	
techniques—	4249	grant lands, etc., amend law—	9786
how differences in workers		reports—	5844, 5859
affect job—	4247	upland cotton acreage allotments,—	
understanding workers—	4248	law—	14027
management course—		report—	3997
Air Force pamphlets—	4236-50	Leather, calf and kip, report on escape	
conference's workbook—	1334	clause investigation—	9527
organizing your job, work assign-		Leather grolnometer, development	
ments—	4238-39	and evaluation—	13635
place in Air Force—	4235-37	Leather, hides, and skins:	
simplifying work—		and leather products, prices and	
appraisal of methods—	4244	indexes, 1957—	892
development and application of		break in leather, introductory psy-	
better methods (workshop)—	4246	chophysical study—	13635
improvement of methods—	4245	international trade, U.S. prob-	
challenge Government faces in na-		lems—	3517
tion's economy (address)—	17024	erratum—	6207
4-H local leader training meetings,		labor turnover rates per 100 em-	
group, human engineering, 1944-53,	13738	ployees, leather and leather	
catalog of technical reports—	3173	products—	7990
heart II spiritual emphasis, guide		leather industry, outlook for 1959	
for 4-H club leaders—	13737	and review of 1958—	1406
military field manual—	3135	manufacturing plants, location by	
naval, basic principles and prob-		county and employment size—	7218
lems—	16975	tanning with aldehydes—	4038
NCO, test criterion development—	1244	see also articles manufactured from	
needs in labor-management rela-		leather.	
tions (address)—	9270	<b>Leave of absence:</b>	
officer candidate school, construc-		disability days, United States July	
tion of qualification inventory		1957-June 1958—	10568
OL-1 selective device and oper-		District of Columbia teachers, edu-	
ational use—	4128	cational purposes, credit for re-	
rural leaders in low-income areas,		irement, report—	16139
guidelines—	13714	Federal agencies, principles and	
<b>Leading edge, see Airfoils.</b>		procedures, G.A.O. guidance	
<b>Leadville, Colo., raising with sus-</b>		manual—	505, 1706-7, 4917, 9109
pended work cage at Irene		Federal employees, accrued leave	
shaft—	925	treatment rel. to unemployment	
<b>Leaf rusts, see Melampsora.</b>		insurance eligibility, report—	4589
<b>Leaf tobacco, see Tobacco.</b>		Leaves, leaf printing, description—	8124
<b>Leafhoppers:</b>		Lebanon, development assistance	
genus Dreunculacephala, review—	8341	agreement—	1199
vectors of phony peach disease, life		Lebed, Mykola, consultation with staff	
histories and behavior—	3081	of Un-American Activities	
<b>Leaflets, see names of departments,</b>		Committee—	15974
etc., issuing leaflets—also sub-		<b>LeCarpe, Bayou:</b>	
jects.		declare nonnavigable stream—	
<b>Learn to Earn Opportunities Forum</b>		law—	15616
for Mature Women, report—	9558	reports—	9992, 15808
<b>Learners, see Apprentices.</b>		Lectures, see Addresses, lectures, etc.	
<b>Learning:</b>		Lee, Ivy M., relief—	7345, 9969, 11931
critical moment in psychic develop-		Lee County, Fla.:	
ment of child, USSR study—	14956	relief, additional payment—	
formation of space perception and		law—	14035
spatial concepts in children,		reports—	8850, 14227
USSR study—	14962	Lee Mansion, see Curtis-Lee Mansion.	
<b>Leases:</b>		Leedom, Boyd, nomination, hearing—	16217
Indian lands, increase terms for cer-		Leeton Building, see Chantilly, Va.—	
tain reservations, report—	16106	Sully plantation.	
mineral leasing act amendments of		<b>Legal abstracts—</b>	681, 726, 5050, 5065, 5073,
1959, hearings—	14564	6483, 6507, 6560, 10278, 10288,	
oil and gas—		13000, 13030, 13060, 13114,	
in Alaska, increase acreage limi-		13122, 13140, 13177, 13202,	
tations—		13217, 14867.	
hearing—	12541	<b>Index, July-Dec. 1958—</b>	12992
reports—	12197, 12477	Legal organs of People's Republic of	
veto—	14114	China—	10359
increase rental, etc., hearings—	14564	Legal series, Farmers Cooperative	
prevent undesirable divisions,		Service—	2510, 11041
hearings—	14564	Legal services, see Law—Lawyers.	
protection from cancellation,		<b>Legislation:</b>	
etc.—		Foreign Relations Committee, his-	
law—	15650	tory, 85th Congress—	3339
reports—	15849, 15916, 16069	major legislative actions, 86th	
terminated by Land Management		Cong—	7321, 13758-759
Bureau, reinstate—	15599,		
15780, 16006A			



# JANUARY-DECEMBER

	Entry		Entry
<b>Legislation—Continued</b>		<b>LeTang, Kathrene, relief</b> .....	11944, 12360
Public Works Committee, Senate, activities, summary, 85th Cong.....	7646	Letters and numbers for cast surfaces and cast identification plates, military standard.....	10065
Republican review, 1st session, 86th Congress.....	15998	Letters, mail, application of statistical sampling methods to outgoing letter mail.....	16942
State, relating to higher education, survey.....	6093	<b>Lettuce:</b>	
see also Labor laws—Law—also subjects.		California, transit temperatures.....	1312
<b>Legislative appropriations, see Appropriations.</b>		growing in greenhouses.....	80
<b>Legislative Assembly, District of Columbia, create, hearings.....</b>	10032	market diseases.....	8306
<b>Legislative budget, see Budget of United States.</b>		storage life on Navy supply ship, extending.....	11631
<b>Legs, see Artificial limbs.</b>		<b>Leucopenia, radiation, effect of pentoxyl on leukopenia, USSR study.....</b>	10380
<b>Legumes:</b>		<b>Leuk-:</b>	
annual, on granitic soil in central Sierra foothills, growth and herbage production, etc.....	3554	For most subjects beginning with this combining form, see Leuc-.	
inoculation, what it is, what it does.....	1300	<b>Leukemia:</b>	
salt tolerance.....	82	death rates by age, color, and sex, 1949-51.....	6820
use of green manures in cotton production on Lakeland sand, lysimeter experimental results.....	7070	development as remote sequence of radiation sickness, USSR.....	6486
<b>Leguminosae, see Angélique—Cavito.</b>		<b>Levelling, see Surveying.</b>	
<b>Lehman Caves National Monument, general information.....</b>	8125	<b>Levenstein, Harry L., see Lewenstein, Philip.</b>	
<b>Leland Consolidated School District, Miss., real property conveyance to, hearing.....</b>	14328	<b>Levi, Lea, relief.....</b>	7532, 13938
<b>Lembi Range, brachiopod fauna of Saturday Mountain formation.....</b>	12768	<b>Levitt, Paul, relief.....</b>	12095
<b>Lemnitz, Lyman L., nomination, hearing.....</b>	7607	<b>Levy, Lea, relief.....</b>	12055
<b>Lemonade, frozen concentrate, standards for grade, amendment.....</b>	11560	<b>Lewensztejn, Philip, relief 9817, 12391, Lexington-Concord Battle Road, report.....</b>	5809
<b>Lemons, storage behavior, Arizona and California desert areas.....</b>	5548	print additional copies, report.....	7424
<b>Lend-lease operations:</b>		<b>Leyte Island sailing directions.....</b>	17499
report—		<b>Li Kai-wei, Mao Tse-tung's cook, reminiscences.....</b>	6559
departmental edition.....	1198, 15203	<b>Liability insurance:</b>	
document edition.....	302, 14110	AEC act operations—	
<b>Lending agencies, see International lending agencies.</b>		hearings.....	12028
<b>Lending operations, see Loans.</b>		reports.....	7316, 8419
<b>Lennin (ice breaker):</b>		<b>Libby, Seth E., Jr., relief of estate.....</b>	8558, 14392
atomic powered, description.....	10327	<b>Libby, W. P., statement.....</b>	13805
<b>Lenin prize winner [M. L. Budyko].....</b>	7926	<b>Liberation army newspaper (Chinese periodical), articles 10239-240, 10338.</b>	
<b>Leningrad, U.S.S.R.:</b>		<b>Liberia:</b>	
literature on meteorology and hydrology, 1957.....	7923	cooperation, agreement.....	17128
sulfur dioxide in atmosphere, seasonal variations and meteorologic factors.....	7950	economy, basic data.....	12705
<b>Leningrad University:</b>		living conditions.....	16423
herald, physics and chemistry series, abstracts.....	10803	preparing shipments to.....	8544
<b>USSR, outline of activities.....</b>	14964	telecommunications agreement.....	17122
<b>Lenses:</b>		<b>Liberty:</b>	
photographic, military standard, ultraviolet and near infrared absorptive coating materials and techniques for their application.....	12582	freedom, predominant force (statement).....	4077
Leon, Elizabeth L., relief.....	4539, 5962, 7284	heritage of freedom (address).....	8496
<b>Lepidoptera, see Butterflies.</b>		human freedom, creative power of free spirit, cause of human dignity (address).....	9276
<b>Leprosy:</b>		human freedom our greatest cause in America (address).....	9273
presumption of service connection, extend period—		Moroccan communists national liberation movements, principal tasks.....	1761
law.....	14043	popular freedom documents available from Supt. of Documents.....	8182
reports.....	8677, 14440	<b>Liberty loan acts, see Bonds of United States.</b>	
progress and potentials in investigations, review of 2d conference, Mar. 4-6, 1958.....	2116	<b>Liberty of speech:</b>	
<b>Leptospirosis, information, questions and answers.....</b>	7039	guaranty for peoples of countries receiving mutual security aid—	
<b>Leachner, Ellen, relief.....</b>	12057, 15567, 16015	report.....	9849
<b>Lesher, Eva M., relief.....</b>	9816, 13945, 14393	views.....	9849
<b>Lesions, vascular, affecting central nervous system, death rates by age, color, sex, U.S., 1949-51.....</b>	8114	<b>Liberty of the press:</b>	
		guaranty for peoples of countries receiving mutual security aid—	
		report.....	9849
		views.....	9849
		<b>Libling, Jakob, Jr., relief.....</b>	4091
		<b>Librarians:</b>	
		career opportunities, Veterans Administration.....	8266
		examination announcements.....	1488, 8476

# INDEX, 1959

	Entry
<b>Librarians—Continued</b>	
State assembly, summary of proceedings.....	9330
<b>Libraries:</b>	
Air Force medical, professional book and journal list, AF pamphlet.....	7105
colleges and universities, statistics, 1956-57.....	8939
depository, revise laws, report.....	4677
District of Columbia area.....	10411
film, directory of 16mm film libraries.....	1592
key audio-visual personnel in library systems, directory.....	3422
library of Thomas Jefferson, catalogue.....	9325
revised pages.....	13302
library services act, general information.....	7873
new serial titles.....	2774, 11315
classified subject arrangement.....	3832, 11314
2d series, 1958 cumulation.....	9329
postage rates on library materials, clarify and make uniform law.....	5932, 14575
hearings.....	5886
report.....	
public—	
in cities with populations of 100,000 or more statistics.....	12596
rural areas, State plans under library services act, 1958.....	8933
statistics, 1955-56.....	8932
role in dissemination of scientific information—	
hearings.....	14350
report.....	15920
surplus property donations, permit—	
hearings.....	17353
report.....	16101
see also Books—also names of libraries or places where located.	
<b>Library accessions:</b>	
east European accession index.....	2765, 11305
foreign statistical publications.....	2355, 10886
Interior Department.....	2683, 11222
Russian, Library of Congress.....	2772, 11312
southern Asia, accessions list.....	2776, 11317
Library extension, see Libraries.	
Library list, Agriculture Department.....	4198, 13742
<b>Library of Congress:</b>	
accessions—	
east European index.....	2765, 11305
Russian index.....	2772, 11312
southern Asia, list.....	2776, 11317
acquisitions, quarterly journal.....	2775, 11316
additional building, preliminary plans, study and review report.....	15848
appropriations, 1960, legislative—	
hearings.....	8720, 8885
reports.....	8671, 8869
budget, 1960 amendment.....	5815
cataloging rules, additions and changes.....	3829, 10409
cataloging service bulletins.....	3829-30, 9324, 10410
catalogs—	
books, subjects.....	2769, 11309, 17672
cumulative.....	2769-70, 2773, 10412, 11309-310
dictionary, subject headings used.....	2777, 11318
motion pictures and film strips.....	2770, 10412, 11310
national union catalog.....	2773, 11313
annual cumulation.....	14979
symbols used.....	10414

	Entry
<b>Library of Congress—Continued</b>	
classification—	
additions and changes.....	2768, 11308
class D, general and Old World history.....	6638
class H, social sciences.....	9326
class S, agriculture, etc.....	8016
class Z, bibliography and library science.....	14976
outline scheme.....	5181
collection of papers of—	
Corey, Herbert, register.....	5180
Davis, James J., register.....	908
Loening, Grover C.....	8017
McAdoo, William G.....	6640
Palmer, Theodore S.....	910
Waite, Morrison R., register.....	14978
White, Wallace H., register.....	5182
Dewey decimal classification use, announcement.....	3830
documents of international meetings, 1953, bibliography.....	14977
exhibits, monthly list.....	2766, 11306
information bulletin.....	2767, 11307
index.....	3831, 8018
Lincoln exhibition, catalog.....	3827
National Exhibition of Prints, May 1-Sept. 1, 1959.....	8015
press releases.....	2778, 11321
publications in print, May 1959, list.....	10413
publications, price list.....	9466
report, 1958—	
departmental edition.....	5179
document edition.....	4438
<b>Library of Surgeon General's Office, see National Library of Medicine.</b>	
<b>Library science, classification, Library of Congress.....</b>	14976
<b>Libya, establishing business.....</b>	10149
<b>Licenses:</b>	
collection agencies in D.C.—	
law.....	15613
reports.....	7410, 14467
export, commercial shipments regulations, etc.....	6215
licensing controls—	
Australia.....	3536
Austria.....	4882
Belgian Congo and Ruanda-Urundi.....	12717
Brazil.....	12714
Cameroun.....	14705
Colombia.....	7800
Ecuador.....	7799
Federation of Malaya.....	4890
Greece.....	4878
Iran.....	1657
Jordan.....	463
Korea.....	9077
Netherlands.....	4879
New Zealand.....	14700
Nicaragua.....	10421
Paraguay.....	12712
Singapore.....	9076
Switzerland and Liechtenstein.....	12716
Taiwan.....	4883
Union of South Africa.....	10152
licensing of industrial property rights, France.....	14704
see also classes of persons to whom, or subjects for which licenses are issued.	
Liechtenstein, exports and imports, licensing and exchange controls.....	12716
Liens, statutory, standards for invalidation, etc., amend bankruptcy act, reports.....	14205, 15804
<b>Life:</b>	
development of living matter, materialist theory of reflection, USSR study.....	16009

	Entry		Entry
<b>Life—Continued</b>		<b>Lift (aircraft)—Continue/</b>	
origin, status of problem, USSR.....	605	series of triangular wing and body combinations at Mach. no. 1.94, investigations.....	1051A
sciences, Federal grants and contracts for research.....	5336	60° delta-wing configuration, propulsive jet effect.....	13419
<b>Life insurance:</b>		trailing-edge bluntiness effect.....	15058
District of Columbia act, amend rel. to group insurance, report.....	5591	use of jet-augmented flap as lift device.....	5274
Federal employees group plan, amend act—		vertical- and short-takeoff and landing airplanes, estimating.....	5264
law.....	15741	wing inboard plan-form modification effects on lift, drag, longitudinal stability of rocket propelled model with swept-back wing.....	16855
report.....	14536	zero drag of body of revolution, transonic investigation of effects of semisubmerged store cavities and slots.....	16762
Federal employees group program administration, expenses, reports.....	4701, 4703	zero lift wave drag—application of Tchebichef form of harmonic analysis for computing.....	17723
for farm families.....	11598	supersonic and moment-of-area rules combined for rapid calculations.....	9371
Government, information and premium rates.....	9538	<b>Lifting, streamline contouring in sweptback wing-fuselage juncture in combination with transonic area rule.....</b>	<b>16831</b>
individual investments in reserves.....	3456-57, 4814, 14624	<b>Light:</b>	
national service—		ambient illumination, etc., effects upon target detectability with B-display.....	6860
information and premium rates.....	10631	daytime conspicuity of aircraft, investigation of means to improve.....	245
regular dividend schedules, 1959, operating procedures, manual.....	1219	luminescence of DNA isolated from tissues of irradiated animals, USSR study.....	13256
total disability income premium rates.....	2170	luminescent microscopy—blood in X-ray irradiation, USSR study.....	13253
veterans special—		bone marrow in action of radio-mimetic substances, USSR study.....	13255
information, premium rates and policy values, VA pamphlet.....	2171	importance in study of bone marrow in radiation reaction, USSR study.....	13254
non-participating, information and premium rates.....	1220	<i>see also</i> Photometric measurements—Zodiacal light.	
<b>Life insurance companies, see Insurance companies.</b>		<b>Light lists, see Lights and lighting.</b>	
<b>Life rafts, twin tube, regulations of administrator.....</b>	<b>17400</b>	<b>Light-ships:</b>	
<b>Life tables:</b>		employees, increase compensation—law.....	15674
abridged, United States, 1957.....	15112	reports.....	12167, 14527
method of constructing, national, divisional and state.....	16956	<b>Lighthouse Service, see Coast Guard.</b>	
<b>Lifesaving apparatus:</b>		<b>Lighthouses:</b>	
aboard vessels, Coast Guard to prescribe regulations—		keepers, increase compensation—law.....	15674
law.....	15624	reports.....	12167, 14527
reports.....	12478, 14295	<b>Lighting fixtures:</b>	
<i>see also</i> Life rafts.		Federal supply schedule.....	12667
<b>Lift (aircraft):</b>		residential, industry, outlook for 1959 and review of 1958.....	1417
Bell X-5 airplane, in 45° sweptback configuration at transonic speeds.....	16800	<b>Lightning:</b>	
characteristics of airplane model, leading-edge area-suction flap and leading-edge modifications, use to improve.....	959	protection for farm.....	9604
characteristics of thin wings of aspect ratio 3 and taper ratio 0.4 at subsonic and supersonic speeds, effect of leading-edge sweepback.....	956	station protection in Polish high voltage networks.....	674
coefficient characteristics at low Mach numbers of hovering helicopter rotor having NACA 64.A012 airfoil section.....	5270	<b>Lights and lighting:</b>	
configurations consisting of 3 triangular wing-panels and body of equal length, characteristics.....	5221	Coast Guard lists—	
delta wings, drag at Mach numbers up to 2.0.....	13408	Atlantic Coast—	
Douglas D-558-II research airplane at transonic speeds, wing mounted external stores effect.....	16801	complete.....	5758
gap between wing and body, effects, high lift-drag ratios at high supersonic speeds, aircraft configurations developing.....	15050	local.....	5760-64
hydro-ski model, hydrodynamic characteristics at depths of submersion.....	6689	Great Lakes.....	4401
moment-of-area rule modification effect on characteristics.....	17735	Mississippi River system.....	5759
properties of wing-fuselage combination.....	6766	Pacific coast—	
rocket-powered airplane having sweptback wing and inline tail surfaces, longitudinal stability.....	8090	complete.....	4399
	16821	local.....	4402-6
		<b>fixtures and lamps, Federal supply schedule.....</b>	<b>12668</b>
		<b>Hydrographic Office lists.....</b>	<b>528, 1718, 3609, 4935-36, 7865-67, 12778, 14769-770, 16477, 17497-498.</b>

# INDEX, 1959

Entry	Entry
<b>Lights and lighting—Continued</b>	Linters, <i>see</i> Cotton.
illumination conditions and visual fatigue, determination by measuring visibility, USSR studies, materials, prices and price indexes, 1957-----	Liquefied gases, <i>see</i> Gas—Gases.
runway, tests of threshold lighting patterns-----	Liquid fuel, <i>see</i> Fuel oil.
street and highway, advancements made (remarks)-----	Liquid-liquid extraction of cerium... 17709
threshold, requirements-----	Liquid metals, <i>see</i> Metals.
<i>see also</i> Electric lamps.	Liquids, pentaborane and pentaborane-3-methylpentane blends, spontaneous flammability-----
Lignite, North Dakota, mining methods and costs-----	974
<i>see</i> Coal.	<b>Liquors:</b>
Li-lun Hsueh-hsi (periodical): articles-----	alcoholic beverages on airlines, prohibit serving, hearings-----
Lima, Peru, weather stations, agreement with Peru-----	14341
Lima beans, downy mildew disease-----	distribution, etc., amend D.C. alcoholic beverage control act, report-----
Limanda ferruginea, <i>see</i> Flounders.	15927
Limbs, compensation to veterans for loss of eye and limb combined, report-----	intoxicating, code of Federal regulation-----
<i>see also</i> Artificial limbs.	6144
Lime:	price fixing, amend D.C. alcoholic beverage control act, hearing-----
minerals yearbook chapter-----	14332
monthly report-----	Liriiodendron tulipifera, <i>see</i> Tulip-tree.
plants and quarries, safety competition awards, 1958-----	Lissl, Maria, relief-----
production, etc., 1958-----	7288
Limestone, Chappel, of Texas, condonants, geology-----	Lister planter, attachment for sideband placement of starter fertilizer-----
4930	11597
Liming, <i>see</i> Soils.	<b>Lists, <i>see</i> subjects of lists.</b>
Limitation (law):	Literacy education, <i>see</i> Illiteracy.
statute date in suits under Miller act-----	Literature, North Vietnam, Cultural-Historical-Geographic Research Commission, history and functions-----
law-----	12813
reports-----	<b>Litharge, lead-monoxide-base coatings, lubricating properties at 1250°-----</b>
Limnology, data of Lake Superior, 1951-57-----	5295
14673	<b>Lithium:</b>
Limonite, radioactive, Colorado, Utah, and Wyoming, preliminary study-----	and its alloys-----
3595	5636
Lin, Fu-Mei permanent residence, opposing-----	minerals yearbook chapter-----
15783	10431
Lincoln, Abraham:	polarization of neutrons from Li-7 (p,n) Be-7 reaction-----
exhibition at L.C. in honor of 150th anniversary of his birth, catalog-----	15398
3827	<b>Lithium fluoride, factors affecting plasticity of single crystals-----</b>
150th anniversary of birth (remarks)-----	16901
5372	<b>Lithographers, Fenderlich, Charles, catalog of work-----</b>
150th anniversary of birth, joint session of Congress to commemorate, print proceedings, report-----	16675
9865	<b>Litigation, <i>see</i> Actions at law.</b>
stamp, ceremony (talk)-----	Little, James W., relief 14167, 14427, 15589
5374, 9455	<b>Little League Baseball Week, <i>see</i> National Little League Baseball Week.</b>
<i>see also</i> Abraham Lincoln Birthplace National Historic Site.	<b>Little River:</b>
Lincoln Sesquicentennial Commission: appropriations, 1960-----	reservoir project near Norman, Oklahoma-----
hearings-----	hearings-----
5011, 8883	14565
law-----	report-----
11961	16116
reports-----	system of reservoirs for flood control, etc., Interior Dept. report
5876, 8713, 8844	1516
press releases-----	Little River Inlet, S.C., to Apalachicola River, Fla., light list-----
2779	5763
Landall, Harry F., relief-- 4478, 9960, 11935	<b>Little Rock, Ark.:</b>
<b>Landane:</b>	aircraft accident-----
insecticide for pine engraver beetles-----	7227
9089	school desegregation case, President's power to use Federal troops, opinion of Attorney General-----
sprays for control of pine engravers, directions for using-----	5158
12747	<b>Little Sitkin Island, geology-----</b>
Lindeman, Philip F., appointment-----	3593
4471	<b>Lituya Bay, Alaska, geology and mineralization-----</b>
Linden, Pa., railroad accident-----	4925
16498	<b>Live stock, <i>see</i> Livestock.</b>
Linear amplifiers, <i>see</i> Amplifiers.	<b>Liver:</b>
Linear antennas, <i>see</i> Antennas.	cirrhosis, death rates by age, color, and sex, 1949-51-----
Linefinder equipment, <i>see</i> Telephone.	13481
Lines, <i>see</i> Electric lines.	functional condition following contact with radioactive substances, USSR-----
Linguistics, <i>see</i> Language and languages.	824
Linguists, Army personnel foreign language speaking ability, measurement and prediction-----	nucleic acids content and synthesis during subacute plutonium intoxication, USSR study-----
9566	6592
<b>Lin-Hsi Coal Mine, combine crew establishes new world record for daily combine cutting and loading operations, China-----</b>	<i>see</i> Hepatitis.
3643	<b>Livestock:</b>
	animal industry-----
	classification, Library of Congress-----
	8016
	publications, price list-----
	9461
	animal quarantine laws, clarify, report-----
	8849
	animal units fed annually, 1909-58 statistics-----
	17211
	auction markets, application of packers and stockyards act-----
	3016



Livestock—Continued		Entry	Livestock—Continued		Entry
auction markets in Appalachian area, methods and facilities—		5547	tuberculosis eradication—		
cattle-pass structures, interstate highway program and problems (address)-----		9473	Federal-State cooperative status (address)-----		1292
dealers, how packers and stockyards act applies-----		13679	State-Federal cooperative program, statistical tables, 1958—		1284
diseases of farm animals, Soviet abstracts-----	3739, 3760	10304,	Venezuela, world's largest dollar market for U.S. livestock-----		12698
10312, 10314, 10317, 10320,			Virginia crops and livestock-----	2224,	10679
13024, 13043, 13130, 13150,			world summaries, monthly-----	2642,	11181
13181, 13216, 13225, 16372			see also Cattle—Food for livestock—Slaughtering.		
diseases, protection against introduction and dissemination, hearing-----		10022	Living conditions, see Cost and standard of living.		
farm animals, Soviet abstracts-----	1820,		Living expenses, see Cost and standard of living.		
3728, 3732, 3766, 5034, 5041,			Living standards, see Cost and standard of living.		
5061, 5072, 5078, 6462, 6525,			Living with problem of surplus (address)-----		4175
6573, 10314, 13005, 13010,			Lizards, reinvestigation of status of species <i>Cnemidophorus perplexus</i> (Tetridae)-----		2064
13076, 13116, 13163, 13173,			Lizzi, Maria, relief-----	4537,	7509
13215, 17596, 17616, 17630.		7023	Lo River, China, sand dunes, topography-----		14796
farm production, etc., 1957-58-----			Load (mechanics):		
farmers engaged in raising, fair labor standards act exemptions, hearings-----		12564	aerodynamic—		
feeding and marketing programs, contract arrangements (address)-----		899	coupled natural frequencies and mode shapes, analytical determination-----		1083
foreign agriculture circulars-----	2643,	11182	distributions for series of 4 boat-tailed bodies, theory-----		2033
foreign trade prospects-----		3524	effects of geometric twist on 45° sweptback wing-body configuration at transonic speeds-----		1041
health (address)-----		13715	elliptical cross sections and various plan forms, transonic characteristics-----		13447
Industry—			flow fields at zero sideslip near swept- and unswept-wing-fuselage, combinations-----		1070
Agricultural Marketing Service programs (remarks)-----		36	multiweb wing structures heated in free jet, tested at Mach no. 2, etc-----		1076-77
economic effects of use of Federal grades and standards for carcass beef-----		3069	on external store adjacent to 45° sweptback wing at Mach numbers 0.7 to 1.06-----		1048
expansion under vertical integration (remarks)-----		4144	satellite entry, minimize acceleration by variation of drag with lift-----		17751
Industry (talk)-----		75	spherical - wave - initiated flow fields around bodies, investigation-----		3920
Insects attacking, insecticide recommendations for control, 1959 season-----		4167	tall and axisymmetric body, shockwave interference at Mach 1.9-----		1005
supplementary sheet-----		13721	two-dimensional investigation of flows and forces on 9-percent thick airfoil with 30-percent-chord flap-----		6745
integration in industry-----		3015	airplane design loads, means of rationalizing-----		16815
interstate movement, enforcement of regulations, guide-----		15292	axial-load fatigue tests on aluminum alloys and SAE4139 steel-----		16915
Inventory, 1959-----		3024	axial loading, fatigue tests of glass-fabric-base laminates, effect of notches-----		4904
livestock and feed grains situation, review, hearing-----		5904	beam loading effect on water impact loads and motions, hydrodynamic theory-----		3910
livestock and meat situation 2210,		10665	buffeting analysis based on experiments with wings of varying stiffness-----		13441
market news—			calculated subsonic span loads, effect of horizontal-tail chord, etc-----		6789
receipts and disposition-----	2211,	10667	characteristics of 4-percent-thick unswept-wing-fuselage-----		13411
reviews, and statistics-----	2212,		compression, truss-core and web-core sandwich plates, optimum proportion-----		15083
weekly summary and statistics-----		10666			
outlook for meat animals in 1959 (statement)-----		1270			
production, marketing, prices, etc., statistics-----		8337			
production units, relative feed needs-----		11600			
receipts at public markets, 1958-----		4149			
regulatory establishments, stations, and officials, working reference, list-----		2278,			
10730					
reports, content and dates of release, 1959-----		30			
slaughtering, humane method, ARS kit-----		7042			
stake in animal agriculture (address)-----		5554			
statistics, world summaries, announcement-----		1645			
terminal markets in United States		4180			
trampling reduces infiltration rate of soil in oak and pine woods-----		7829			
transportation—					
bruised animal tissue, biochemical problems in determining age of bruises-----		6116			
hired trucks in marketing-----		4179			
losses, causes, etc-----		8978			

# INDEX, 1959

Load (mechanics)—Continued	Entry	Load (mechanics)—Continued	Entry
crushable structures for acceleration protection of occupants of vehicles at low impact speeds, investigation.....	17757	maximum wing and tail loads experienced on swept-wing fighter airplane, summary of flight conditions and maneuvers.....	10470
deck boards carrying capacity for general-purpose pallets.....	16433	payload lowering device from high-altitude balloons.....	149
distributions over thin 45° swept-back highly tapered wing in combination with basic and indented bodies.....	1074	pitch-up problem, evaluating aspects.....	15049
dynamic analysis of simple re-entry maneuver for lifting satellite.....	16887	predicted static effects on wings with supersonic leading edges and streamwise tips.....	6794
effect of dynamic preloads on mechanical properties of steel, studies.....	13518	pressure distributions for untwisted 45° sweptback wing at transonic speeds with spanwise twist variations.....	1082
external-store mounting arrangements and shapes, effects on buffet characteristics of wingless rocket-powered models.....	1046	pressure measurements at transonic speeds for 45° sweptback tapered wing with systematic spanwise twist variations.....	3944, 6767
flap-type aileron, effectiveness and loading characteristics of lateral controls.....	10481	reversed loading fatigue-crack propagation for aluminum alloys.....	16891
flapped wing, air distributions from leading-edge and trailing-edge blowing.....	1073	rotating wings—	
flight buffet, wind tunnels to predict.....	16854	effects of transition, landing approaches, etc., on bending and torsional moments.....	8089
gust loads—		induced velocities near lifting rotor, charts.....	8083
acceleration, etc., from 4-engine transport airplane operating over northwestern U.S.-Alaska route.....	5265	sharp-edge vertical gust effect on flapping angles and bending moments.....	16877
airplane measurements of atmospheric turbulence.....	9370	seaplane loads and hull pressures, estimation of frequencies and intensities for routine operations.....	1071
airplane response to random atmospheric disturbances.....	5214	spheres, impact penetration into copper targets, high-speed investigation.....	5222
errata.....	9357	steady-wings—	
evaluation of methods for calculating symmetrical bending-moment response of flexible airplanes to isotropic atmospheric turbulence.....	6761	aerodynamic loading characteristics at transonic speeds.....	16837
missile operations, estimating problem.....	1092	basic pressure measurements on wing with cubic variations of twist across span.....	10496
rocket-powered models, response in rough air at transonic speeds, characteristics.....	6731	loads associated with spoilers at supersonic speeds.....	17729
wing flexibility effects on strains.....	6680	matrix method for calculating in subsonic flight.....	10501
high speed impact, regions of impact, and impact at oblique angles, investigation.....	17746	structural compression plates at elevated temperatures, lifetime theoretical compression.....	6768
hydro-skis for landing seaplane in waves, tank investigation.....	1066	structural, dynamic rotor blade bending moments and flapping angles, effect of flapping hinge offset.....	6775
hydrodynamic impact—		subsonic wing, on 45° sweptback wing and body combination at high angles of attack.....	5266
alleviation with penetrating hydro-ski.....	5621	sweptback wing configurations with blowing flaps and leading edge, surface pressure distributions.....	1078
theory for deeply immersed prismatic bodies.....	5282	swept-wing bomber airplane, analysis of incremental horizontal-tail loads.....	16911
hydrodynamics qualities of seaplane configuration, effect of increase in angle of dead rise.....	1057	swept-wing research airplanes in angle-of-attack range of reduced stability.....	15059
journal bearings carrying capacity, influence of shaft deflection and surface roughness.....	15071	transonic, characteristics of 3-percent-thick 60° delta-wing-body combination.....	16851
landing—		turboprop transport in operation, analysis of acceleration, airspeed, and gust-velocity data.....	16881
ground-reaction forces and vertical accelerations at center of gravity of transport airplane taxiing over obstacles, measurements.....	16872	vertical-tail, in turbulent air, effects of yaw damping.....	5285
maximum spin-up coefficients of friction obtained during tests of landing gear.....	3942	water-landing impact—	
water impact characteristics of conical-shaped reentry capsule.....	10497	accelerations for reentry capsules.....	17756
long-term loading effect on glass-reinforced plastic laminates.....	4905	an orbital capsule from standpoint of occupant protection.....	16884
low speed yawed-rolling characteristics of aircraft tires.....	3934		

# JANUARY-DECEMBER

	Entry
Load (mechanics)—Continued	
wing and tail, pitch-up problem, criterion and method of evaluation	5297
wing-body juncture interference effects at transonic speeds	13386
wing-fuselage combinations, divisions of loads, summary of data	16806
wings, load, distribution due to projection of spoilers at subsonic and transonic speeds	17730
Load lines:	
International convention, modification	15214
merchant and passenger vessels, regulations	1502
Loading, see Load (mechanics).—Unloading and lading	
Loading equipment, warehouses, loading out fruits and vegetables	4178
Loan associations, see Federal savings and loan associations	
Loans:	
bank-SBA participation loan plans, business—	2129
member bank term lending, 1955—57	7728
security pledged at Federal reserve member banks	17413
surveys 1955 and 1957	6164
commercial and industrial, changes, weekly report	2569, 11106
commodity loan and purchase handbook CSS operating procedure for grains	9751
community facilities loan program, expand, hearings	8725
consumer loans made under effective State small loan laws, monthly estimates	2574, 11111
credit principles, guide for rural communities	5396
disaster, for businesses, for homes, through SBA	4053
Federal interest rate determinations with respect to urban renewal program	6990
Federal reserve member bank loans	2583, 11120
FHA home modernization and repair	14626
fisheries loan program, purposes	4858
guaranty, etc., programs, additional funds—	
law	9793
reports	3312, 4547
home mortgage debt and financing activity, 1958 estimates	6123
home mortgage participation program, insured associations, sales and purchases	6124
improve today with FHA	3460
Klamath Indians, use of revolving fund—	
law	9772
reports	6017, 8643
long term, Small Business Administration to State and local development companies, law, questions and answers	328
mortgage loans held by FNMA, exchange for Treasury bonds—	
hearing	8886
opposing—	
report	12452
views	12452
mutual security act of 1958—	
report	9994
views	9994
mutual security program, development and implementation review—	
hearings	8322, 4651

	Entry
Loans—Continued	
report	4650
mutual security program development loan fund—	
draft legislation—	
hearings	7465, 8733
hearings, index	8733
hearings	10040-41
law	11995
message from the President	4469
minority report	9834
reports	9834, 9844, 12193
views	9834
national banks, increase limitations—	
hearing	16194
law	14089
reports	12191, 12227, 14508
national defense education act of 1958—	
administration, hearings	5924, 9908
guide	3420
national defense student program—	
explanation	7671
general information and instructions, manual	1597
including list of participating institutions, 1958-59	6008
questions and answers	4779
private vs Government, statements, railroads, guaranties under Transportation act of 1958, opinion of Attorney General	5157
REA functions, expressing sense of Senate, hearings	6045
REA, increase (remarks)	1163
REA program, statistical report, 1958	15178
REA, reinvest authority in administrator—	
hearing	5926
minority report	5874
reports	5874, 6011, 7362
veto	7499
views	5874, 6011
real estate, State-guaranteed made by national banks exempt from Federal reserve act, report	12427
rural electrification act interpretation, report	16050
savings and home financing chart book, 1959	7704
small business—	
adversely affected by foreign trade policies, hearings	14555
displacement due to urban renewal activities hearings	14555
economic injury due to federally aided highway program, hearings	14555
Small Business Administration,—	
business loans, policies, etc.	1168, 5407
loan authority, increase, hearings	12283
small business investment act amendments of 1959, report	16009
unemployment area assistance—	
hearings	4737, 5922, 6049
reports	5992, 7426
views	5992, 7426
veterans, guaranteed and direct—	
extension—	
hearings	10050
reports	12221, 12434
views	12434
Increase interest rate, hearings	4663
watershed protection and flood prevention, act, amend report	15852

# INDEX, 1959

	Entry		Entry
<b>Loans—Continued</b>		<b>Logs:</b>	
see also Agricultural credit—		and tree grading systems as means	
Banks and banking—Federal		of measuring quality, research	
savings and loan associa-		program.....	3574
tions—Mortgages—National		grading for quality, July 1955—	
farm loan associations—Re-		57.....	7819
volving funds.		heating rates for logs, etc., to be	
<b>Lobbying, communist activities in</b>		cut into veneer.....	17455
Nation's Capital, report.....	15971	blekory, grading and measur-	
<b>Loblolly pine, see Pine.</b>		ing.....	8270
<b>Lobsters:</b>		moisture content, effect on power	
freezing and storing cooked whole		required for sawing.....	7822
lobsters.....	423	sawtimber grades, Wisconsin	
Maine industry, role of holding		stain, checks, and decay, control	
pounds.....	12682	measures.....	7823
spiny, gear and fishing methods.....	16385	techniques for evaluating deck con-	
<b>Local board memoranda.....</b>	2935, 11479	ditions.....	12732
<b>Local organs of State authority of</b>		veneer, production in Lake States	
People's Republic of China		as result of mill closures,	
(excerpts).....	5014	1958.....	14733
<b>Local public agency letters.....</b>	5451, 6990-93, 11829	<b>Lombard, Ill., population, special</b>	
<b>Local-State-Federal watershed pro-</b>		census.....	8452
jects.....	1174	<b>Long, Richard C., relief.....</b>	12097, 14421, 15597
<b>Local transit:</b>		<b>Long, Ronald R., relief.....</b>	7354
operating employees, union wages		<b>Long Beach, Calif.:</b>	
and hours—		hydrology of area.....	12773
departmental edition.....	5173	occupational wage survey—	
document edition.....	4451	departmental edition.....	10403
<b>Location identifiers, airport, etc.,</b>		document edition.....	9798
manual, revisions.....	2518, 11051	<b>Long Beach (USS):</b>	
<b>Locker plants, see Cold storage.</b>		launching (remarks).....	9874
<b>Lockers, clothing, steel, Federal</b>		<b>Long Island Sound, oysters, spawning</b>	
standard.....	16351	and setting.....	7744
see also Cold storage.		<b>Long Lake National Wildlife Refuge,</b>	
<b>Lockheed Lodestar, accident.....</b>	7229	birds.....	3511
<b>Lockjaw, see Tetanus.</b>		<b>Longitudinal stability, see Stability of</b>	
<b>Locks (hydraulic engineering):</b>		aircraft.....	
Calumet River, filling and emptying		<b>Longleaf pine, see Pine.</b>	
characteristics.....	7681	<b>Longmire, Wash., Mount Rainier Na-</b>	
filling and emptying system, hy-		tional Park headquarters site,	
draulic model, investigation.....	8973	change to Ashford, Wash., re-	
navigation locks, design and con-		port.....	8865
struction, engineering manual.....	10085	<b>Longshoremens:</b>	
see also names of locks.		compensation, 3d party liability,	
<b>Locomotive Inspection Bureau, report,</b>		amend act—	
1958.....	1731	law.....	14026
<b>Locomotives:</b>		reports.....	5868, 10002
electric, one kind of overhaul at		<b>Look at surplus commodity opera-</b>	
terminals (USSR).....	628	tions (address).....	9752
industrial and special, character-		<b>Look at you in United States Navy.....</b>	16974
istics, military standard.....	6088	<b>Looking back on 1958, Communist</b>	
inspection law, etc.....	12795	China.....	6557
operation and maintenance, ma-		<b>Lookout Point Dam, soils design, con-</b>	
chine management sector of		struction and performance ob-	
East German Reichsbahn.....	810	servations review.....	8975
<b>Locust trees, black, silvical character-</b>		<b>Looms, broad woven fabric mill, facts</b>	
istics.....	3555	for industry.....	8454
<b>Lode mining, see Tin.</b>		<b>Lorentz transformation, extending</b>	
<b>Lodge, George C., nomination, hear-</b>		theory to motion with variable	
ing.....	16218	velocity.....	9386
<b>Lodgepole Creek drainage basin,</b>		<b>Los Angeles, Calif.:</b>	
geology and ground water re-		aircraft industry problems, hear-	
sources.....	16472	ings.....	3533
<b>Lodgepole needle miner, Tioga's</b>		electric facilities of area, map.....	16339
ghosts.....	9088	meat distribution in area.....	13730
<b>Lodgepole pine, see Pine.</b>		occupational wage survey—	
<b>Loening, Grover C., papers in Library</b>		departmental edition.....	10403
of Congress, register.....	8017	document edition.....	9798
<b>Loess, mantled slopes in southern</b>		standard metropolitan area, hous-	
Nebraska, western Iowa, north-		ing inventory, characteristics.....	5707
western Missouri, origin of		union activities, investigation,	
steps.....	513	hearings.....	4743
<b>Loftis, Anna, relief.....</b>	14158, 15603, 16007	<b>Watertightness of Newport-Ingle-</b>	
<b>Log loaders, salvaging old-growth</b>		wood structural zone.....	12773
Douglas-fir with mobile high-		<b>Los Indios, Tex.:</b>	
land yarder.....	16440	bridge across Rio Grande, construc-	
<b>Logging, see Lumbering—Timber.</b>		tion—	
<b>Logging roads, see Roads.</b>		hearings.....	16198
<b>Logic, see Reasoning.</b>		law.....	15703
<b>Logistics, see Military art and</b>		minority views.....	16166
science,—Naval art and		reports.....	14308, 16166
science.		<b>Lost River, lode tin mining.....</b>	1985
		<b>Loudspeakers, wire diffusion, long</b>	
		range plans, USSR.....	834



# JANUARY-DECEMBER

	Entry
Louisiana:	
and adjacent States, floods of Apr.-June 1953.....	9122
census of governments, 1957, State bulletin.....	13834
climatological data.....	2993, 11546
electric rate book.....	16330
landings, fishery products.....	2616, 11154
annual summary, 1958.....	14660
mineral industry, minerals yearbook chapter.....	1994
precipitation data, hourly.....	2996, 11549
southeastern, Mississippi River deltaic plain, geology.....	393
strawberries, precooling and shipping.....	15320
weather and crop bulletin.....	2248, 10700
Louisiana and Arkansas Ry., accident.....	7886
Louisiana State University and Agricultural and Mechanical College:	
property heretofore conveyed, use for educational purposes—	
hearing.....	14328
law.....	15650
reports.....	15817, 16094
Louisiana-Vicksburg Bridge Commission:	
repeal act creating—	
law.....	14046
report.....	9866
Louisville, Ky., electric facilities of area, map.....	16336
Louisville and Nashville RR., accident.....	3639
Loukotka, Josef J., relief.....	12078, 13939
Lousedes, Elias A., relief.....	5974, 8604, 11910
Lovric, Mileva, relief.....	14403
Lovse, Bernardine (Nadica), relief.....	14405
Low-pressure performance of different diameter experimental combustor liners.....	6698
Low-rent housing, see Housing.	
Low-speed wind-tunnel investigation of wingless jet VTOL transport model.....	17737
Low temperature embrittlement mechanics deduced from zinc single crystal fracture studies.....	2124
Lower Eocene period, see Eocene period.	
Loxahatchee National Wildlife Refuge, birds.....	14672
Loyalty:	
oath provision of national defense education act of 1958, eliminate—	
hearings.....	8904
report.....	12402
views.....	12402
Lubricants:	
cutting etc., oils and greases, service station deliveries, Federal supply schedule.....	419
dry distillation utilization in China.....	6347
Federal supply schedule.....	419, 4842, 12676, 14658
halogen-containing gases for corrosion-resistant alloys at 1200° F.....	5292
high temperature, developed from aromatic acids and fluoroalcohols.....	3991
high temperature solid dry film, testing.....	8371
oil, armed services and departments of Federal Government, 1960.....	10068
oils and greases, sales by States, types, and company classification, facts for industry, 1958.....	15478

	Entry
Lubricants—Continued	
test method standard, change.....	6177
world retail prices, etc., on motor oils.....	2787, 11331
see also names of lubricants.	
Lubricating oils, see Lubricants.	
Luce, Clare B., nomination, hearing.....	7614
Luchner, Herman, relief.....	9955, 12075, 13927
Lumber:	
air-drying to increase mill profits, study.....	3557
air-drying, use of stacking jig for better lumber packages.....	10167
amount and grades from Black Hills ponderosa pine logs.....	10447
board production, outlook for 1959 and review of 1958.....	1428
deck boards load-carrying, capacity for general purpose pallets.....	16433
exports, 1958.....	17276
foreign vessels to transport lumber, Savannah, Ga. to Puerto Rico, hearings.....	314
grade recovery, Black Hills ponderosa pine.....	7835
Industry—	
competing unions and extremes in establishment size complicate bargaining relations.....	9306
outlook for 1959 and review of 1958.....	1420
kiln-dried, case hardening and moisture content tests.....	9101
lumber and allied products, handbook.....	354
lumber and wood products, manufacturing plants, location by county and employment size.....	7219
mills, etc., labor turnover rates per 100 employees.....	7991
prices and price indexes, 1957.....	896
production and mill stocks, 1957, facts for industry.....	5695
publication, price list.....	6906
Lumbering:	
logging industry problems—	
hearings.....	1571, 6076
report.....	7574
logging, milling, etc., publications list.....	10172
yarding and loading costs for salvaging old-growth Douglas-fir with mobile high-head yarder.....	10439
Luminance, see Light.	
Luminescence, see Light.	
Lunches, see School lunches.	
Lund, Nels, relief.....	8627
Lungs, see Pneumoconiosis.	
Lunik, see Rockets.	
Luxembourg:	
economic developments, 1958.....	7776, 9067
economy, basic data.....	14688
mutual defense assistance, agreement.....	13616
Lykes, James, see James Lykes (steamship).	
Lymphocystis disease of fish.....	3503
Lymphogranuloma venereum, management in general practice.....	2112
Lymphoid tissues, see Tissues.	
Lymphosarcoma, see Tumors.	
Lynn County, Tex., soil survey.....	17849
Lyons, Eugene, consultation with staff of Un-American Activities Committee.....	15974
Lysimeters, soil fertility studies.....	7070
M	
M.A.T.S., see Military Air Transport Service.	
M Series.....	17026

# INDEX, 1959

	Entry		Entry
M.M.S. series.....	934-939, 1999-2009, 3857-69, 5189-200, 6053-59, 8035-45, 9339-50, 10433-451, 13325-360, 15009-024, 16710-715, 17703- 704.	Machinery—Continued	
Ma Bong Chiang, relief.....	9962	machine builder (USSR periodical), abstracts.....	10825
Ma Yin-ch'u's capitalist viewpoints on problem of budgets, deficits and bonds.....	5056	manufacturing— labor turnover rates per 100 em- ployees.....	7992
McAdoo, William G., papers in Li- brary of Congress, register.....	6640	wage structure— winter 1957-58.....	880
McAllister, Thomas F., decoration ten- dered by France, accept.....	11940, 12050, 12365	winter 1958-59.....	17667
McArdle, Thomas J., relief.....	13982, 14187, 14377	mechanical guarding, principles and techniques.....	6628
Macaroni, definitions and standards.....	435	price indexes, 1957.....	899
MacArthur, Douglas, accept and wear decorations, etc., from foreign governments.....	11943, 12052, 12366	prices, analysis of inflation, study paper.....	17318
McCarran, Patrick A.: statue— acceptance, placement, etc., re- ports.....	12507, 14273-274	repairman, Navy training courses.....	6847
dedication proceedings, print, re- port.....	14279	Soviet, heavy, technical data.....	1742
McCone, John A., testimony on Ge- neva test ban negotiations.....	16202	Soviet machine building, selected translation.....	13196-197, 16560
McDowell County, W.Va., coals, car- bonizing properties.....	2014	special industry, Federal supply schedules.....	12664-665
Mace, Ohio, railroad accident.....	14780	storage and shop, farm building plan.....	5551
McFadden act, see National banks.		woolen and worsted, 1958, facts for industry.....	7215
McGregor, J. Harry, memorial serv- ices.....	15556	see also names or types of ma- chinery.	
Mach numbers, free stream effect on gross-force and pumping char- acteristics of ejectors.....	3893	Machines, see Machinery—also spe- cial kinds of machines, e.g. Vending machines	
Machine accounting, see Accounts and accounting.		Machinists, aviation mate 2, Navy training courses.....	1121
Machine operators, see Addressing machine operators—Bookkeep- ing machine operators—Calcul- ulating machine operators— Graphotype machine operators— Office machine operators.		McKay, Douglas, Dam and Reservoir, see Douglas McKay Dam and Reservoir.	
Machine shops, machinery storage and shop, farm building plan.....	5551	Maco Warehouse Co., relief.....	14199
Machine tools: facts for industry.....	13862	McReynolds, Sam D.: plaque in honor, erect at Chicka- mauga Dam— law.....	14096
industry outlook for 1959 and re- view of 1958.....	1443	reports.....	14322, 14510
machine tools and tools (USSR periodical), abstracts.....	10826	McVey, William E., memorial serv- ices.....	275
Soviet, technical data.....	3727	Macy, John, relief.....	7520
Machine translations, see Translating machines.		Madeira Beach, Fla.: relief— law.....	15717
Machinery: building industry, Czechoslovak spe- cialization.....	859	reports.....	8704, 16152
Charpy test machine for radioactive specimens.....	16983	Madison, James, memorial plans, re- port.....	16063
complex mechanical products, dis- tribution and sale through small business, etc., hearings.....	12540	Madison River, fishery management studies.....	14675
Czechoslovakia industry production structure efficiency methods, improvements.....	801	Madrone: Pacific— silvical characteristics.....	495
electric— labor turnover rates per 100 em- ployees.....	7985	vener cutting and drying prop- erties.....	12728
location of plants by county and employment size.....	7223	Magazines, see Periodicals.	
employment trends in industry.....	9299	Maggie Canyon manganese deposit, leaching ore by dithionate-pro- cess pilot plant.....	16729
heavy machine building, develop- ment and prospects of steel foundry production, USSR study.....	3642	Magnesium: adhesive bonding properties, effect of surface treatment.....	484
herald of machine building (USSR periodical), abstracts.....	10804	alloys nomenclature and temper designation system, military standard.....	4768
industry, except electrical, location of plants by county and em- ployment size.....	7223	compounds— minerals yearbook chapter.....	15002
inspection for maintenance.....	2182	production, etc., 1958.....	13332
		preliminary report.....	3858
		identification marking, Federal standard.....	14649
		industry— midyear review and outlook for 1959.....	9692
		outlook for 1959 and review of 1958.....	1415
		mill products, facts for industry.....	2371, 5686, 10902
		minerals yearbook chapter.....	10432
		ores, occurrences, uses, etc. in USSR.....	1789
		primary, quarterly reports.....	2831, 11373

# JANUARY-DECEMBER

	Entry
<b>Magnesium—Continued</b>	
production—	
automation of technical processes	650
production, etc., 1958	3857, 8037
preliminary report	3857
technical and economic data	655
recovery from incendiary alloys	10453
Magnesium fluoride, component of aluminum bath electrolyte, physico chemical properties, USSR study	1745
Magnesium oxide:	
factors affecting plasticity of single crystals	16901
polycrystalline, introductory study of producing ductility	16902
Magnetic compass, <i>see</i> Compasses.	
Magnetic cores, <i>see</i> Cores (magnetic).	
Magnetic fields:	
free oscillations of electron plasma	3153
hydromagnetic equilibria stability—measurements, second derivatives of magnetic potential of bodies, experiment, USSR study	6583
oscillations of finite cold plasma—vacuum, in torus, with multipolar windings	15412
Magnetic mirrors, mirror machine lectures	4321
Magnetic moments of magnetometers, influence of certain factors, Bulgarian study	8412
Magnetic recorders, <i>see</i> Tape recorders.	5113
Magnetic resonance:	
dipole fields and normal modes in garnet	16990
electron paramagnetic resonance, spectra of Cr-aromatic compounds with various substituents, USSR studies	3725
paramagnetic—	
resonance in biology, USSR studies	3660
use in detection of radiation induced free radicals	5393
USSR discovery and applications	10360
Magnetic surveys, <i>see</i> Terrestrial magnetism.	
Magnetic tape, thin beta-ray gage for measuring thickness	10549
Magnetism:	
contactless devices for system of control, USSR study	13264
ionospheric disturbances and aurorae, planetary distribution, USSR study	12916
magnetic properties of core materials, effects of high temperatures	10550
Soviet abstracts	1848, 1855, 3770
<i>see also</i> Magnetograms—Magnetographs—Terrestrial magnetism.	
Magnetization:	
intensity of rocks, method for measuring with astatic magnetometer	5019
rocks, use of measurements of magnetic field in prospecting holes to determine intensity, USSR study	6584
Magnetograms, MHV series	3236-42, 5753, 9741, 17301-302
Magnetographs with visible recording, USSR, description	3695
Magnetohydrodynamics:	
applied, transactions of Institute of Physics of Latvian Academy of Sciences	11717
aspects of boundary layer flows	6791
Magnetometers:	
astatic, method for measuring magnetic properties of rocks, USSR studies	5019

	Entry
<b>Magnetometers—Continued</b>	
magnetic moment, influence of certain factors, Bulgarian study	5113
Magyar Kozlony:	
legal abstracts	726, 5050, 5073, 6483, 6560, 10278, 10288, 13000, 13030, 13060, 13122, 13140, 13177, 13217.
subject index—	
July-Dec. 1957	755
Jan.-June 1958	728
July-Dec. 1958	12992
Mahoney, Elmo J.:	
contested election	7338, 9811
report	8546
Mail carriers, rural delivery service from its beginning	1143
Mail handlers, position description and salary levels, hearing	15956
Mail matter:	
addresses, Air Force directory, continental US and Canada, Air Force manual	3088, 4204
air transportation, brief history	1142
air transportation for other than air mail, report	16081
certified mail, used by CAB and FAA, for service of process—	
law	15611
reports	12207, 14486
communist political propaganda, hearing	7635
cost ascertainment report, 1959	9454
detention for temporary periods, amend act—	
hearings	12304
report	15796
dimensions of specified length and width for envelopes, feasibility for 1st and 3d class mail, Post Office Dept. report	16223
fraud and mailability cases, releases	2882, 11421
handling activities, transfer from Newark airfield to city post office, report	16221
letter mail, application of statistical sampling methods to outgoing mail	16942
obscene material—	
addresses	17018-19, 17028
hearings	8749, 12305
odd sizes and shapes, revise charges—	
hearing	7475
law	11957
reports	7400, 8828
3rd class bulk mail rates, study, progress report (address)	13823
workshop, agency view (address)	13453
<i>see also</i> Parcel post—Penalty mail.	
Mail order business, mail order selling, bibliography	9490
Mails, <i>see</i> International postal service—Postal service.	
Main Geophysical Observatory, Imeri Voyeykov, USSR, results of 1957 work, summary of session of its scientific council	5136
Maine:	
agricultural conservation handbook	1248
census of governments, 1957, State bulletin	13835
climate	17889
electric rate book	6132
landings, fish and shellfish, annual summary—	
by county and gear	7740
by months	7741
landings, fishery products monthly	2617, 11155
lobster industry, role of holding pounds	12682
mineral industry, minerals year-book chapter	17690

# INDEX, 1959

Entry	Entry
Maine—Continued	Malaya—Continued
southern, selection of stand variables for making volume estimates from aerial photos-----	new independent nation, back-ground-----
17469	2150
Maine, Gulf of:	sending gift packages to-----
redfish, age and growth-----	16408
surface circulation as deduced from drift bottles-----	special technical assistance agreement-----
3498	13622
Maintenance:	Malformations, see Deformities.
aircraft—	Malheur County, Oreg., forest statistics-----
aircraft accident and maintenance review-----	2576
2296	Malheur National Forest, forest growth and mortality estimates-----
general maintenance alert bulletins-----	9105
1617, 4801	Malignant tumors, see Tumors.
general maintenance inspection aids, supplement-----	Malinin, Ivan M., consultation with staff of Un-American Activities Committee-----
2515	15974
electric and telephone right-of-way, brush control practices-----	Malleable iron, see Cast iron.
9481	Malloy, John T., relief-----
management, organizational and field, Air Force manual-----	4497
11665	Malmquist, Goran, views on China-----
organizational, wiresonde set AN/UMQ-4-----	6385
3149	Mammals, small, calculation of home range and density of population-----
precision and automotive jobs, prediction of success-----	2115
1243	Mammary glands, penetration of Sr, Cs, Ru, Fe isotopes through mammary barrier into milk secretion, USSR study-----
Maintenance mechanics, see Mechanics (persons).	14941
Maintenance of equipment:	Man:
aircraft—	acclimatization on ice floes in North Arctic Ocean-----
accident and maintenance review-----	12866
10748	atomic survival, technical considerations, hearings, except-----
general maintenance inspection aids, supplement-----	13804
11049	biochemistry, comparative data of humans and simians-----
electric locomotives, one kind of overhaul at terminals (USSR)-----	808
628	man on wings-----
electric power generating plants, Air Force manual-----	6534
5579	morphology, Soviet abstracts-----
engineering, contract technical services, Air Force manual-----	3754, 10282, 10297, 10318, 13007, 13019, 13075, 13079, 13104, 13192, 13198, 13205, 13232.
131	movements, origin and development of conscious control, USSR study-----
1280-83	14959
instructions, NGB pamphlet-----	physiology, Soviet abstracts-----
9401	3767, 3780, 6478, 6480, 6511, 6548, 6572, 10298, 10311, 13006, 13036, 13050, 13055, 13148, 13204, 14899, 16587, 16590, 17580, 17628.
locomotives, machine management sector of East German, Reichsbahn-----	Man-hours, see Labor.
810	Man-machine system, see Human engineering.
materials handling handbook-----	Management, see Administrative management—Industrial management.
17131	Management analysts, examination announcement-----
operation and maintenance, technical manual-----	11833
11712	Management codes, Ordnance Corps manual, change-----
operation and organizational maintenance, technical manuals-----	13535
9655, 11714, 17245	Managers:
operator's and organizational maintenance, technical manual-----	owner-managers' job, organizing-----
9652	13581
organizational and field maintenance, technical manual-----	retail store, balanced skills, measure of effectiveness-----
11710	6932
organizational maintenance, technical manuals-----	small stores, essential personal qualities-----
9653-54, 9656, 13790	17076
preventive, Air Force installations, manual-----	Manasquan, N.J. to Cape Hatteras and Chesapeake Bay, coastal warning facilities chart-----
7094	5460
snow removal unit, field and depot manual-----	Manatee County, Fla., soil survey-----
11709	1177
utilization of numbers of service men, simple analysis-----	Manea, Maria B., relief-----
17236	5947
Maintenance shops, aircraft, general aviation inspection aids summary-----	Manganese:
10096	carbonate and oxide ores, acid-ferrous sulfate leaching-----
Malacca Strait, sailing directions, change-----	5204
17501	deposits—
Malara, Giovanni, relief-----	Nevada, reconnaissance-----
5972, 8595, 11902	5208
Malaria: death rates by age, color, and sex, 1949-51-----	northeastern Oregon-----
10515	13364
description, etc., health information series-----	minerals yearbook chapter-----
17042	16705
general information leaflet-----	ore-purchasing depots operations at Deming, N. Mex. and Wenden, Ariz-----
1195	13363
Malathion:	ores, Cuyuna-Range iron formations, core-drill sampling-----
protective treatment for shelled corn stored in metal bins in Southeast-----	6665
13735	production, etc., 1958-----
sprays, timing effect on orange production-----	13347
8288	recovery from ores, leaching by dithionite-process pilot plant-----
Malaya:	16729
exports and imports, licensing and exchange controls-----	reports, monthly-----
4890	2811, 11356
guaranty of private investment agreement-----	research program of Mines Bureau-----
9520	13347



# JANUARY-DECEMBER

	Entry
Mangers and feeding floors for dairy and beef cattle.....	11644
Mangone, Gerard J., statement.....	6056
Manners and customs:	
Chi'ang people.....	1172
society of north Alaskan Eskimo—	
departmental edition.....	8375
document edition.....	8529
Manning, James J., relief.....	12101
	13992, 14425
Manpower:	
adjustments in low income rural areas, socio-economic aspects (paper).....	15298
Air Force enlisted and officer personnel, aptitude levels, appendix.....	155
Air Force manuals.....	129, 4205
Communist China—	
distribution, utilization, and organization reform.....	705
newspaper summaries, etc.....	6452
demographic and sociological aspects of scientific manpower, symposium.....	17791
engaged in scientific research and development at colleges and universities, statistics and expenditures, 1953-54 survey.....	6842
Federal personnel utilization investigation, hearings.....	8746
mentally marginal military personnel utilization criteria development, survey of literature.....	1237
need for educational and vocational guidance, approach to individual analysis of student's abilities.....	1591
scientific and education program—	
hearings.....	9929, 12309
report.....	15921
scientific and technical program for maintaining central clearing-house for information, etc.....	15119
scientific, papers of 7th Conference on Scientific Manpower, 1958.....	17791
scientific bulletin.....	2075
skills and American future (address).....	16649
utilization in Federal Government, hearings.....	1556, 15955
your stake in our changing manpower.....	878
see also Scientists.	
Manual arts therapist, examination announcement.....	9740
Manuals, see names of departments, etc., issuing manuals—also subjects.	
Manufacturers, see Manufactures and manufacturers.	
Manufactures and manufacturers:	
annual survey of manufactures—	
MAS series.....	1461-62,
4349, 8444, 9702-4, 11772	
special instructions for completing 1958 census reports.....	1473
1957, summary.....	15459
carload waybill statistics, 1957.....	6331,
	7879
census 1954—	
production indexes.....	6713
announcement and order form.....	7190
special report, bulletins.....	204, 5677
census publications, price list.....	17034
centralized control, electronic machine.....	1822
concentration in American industry, report, additional copies, report.....	14278
employment trends in manufacturing since 1947.....	9800

	Entry
Manufactures and manufacturers—	
Continued	
Federal supply code for manufacturers—	
code to name, supplements.....	2490,
	11021
name to code, supplement.....	2489, 11020
financial report of corporations.....	2599,
	11136
general statistics.....	1462
errata.....	1461
injury rates.....	2752, 11291, 13294
inventories, value, 1957, 1956, 1955, and 1954.....	8444
manufactures industries census, classification comparability, 1929-58.....	17286
manufacturing division—	
employment, payrolls, hours and earnings.....	9298
labor turnover rates per 100 employees.....	7993
manufacturing establishments, classified by company employment size, census of manufacturers, 1954.....	204
miscellaneous—	
labor turnover rates per 100 employees.....	7995
location by county and employment size.....	7221
new plant and equipment expenditures, 1957, 1956, 1955, and 1954.....	9704
output, analysis of markets since 1947.....	4826
plants, location by industry, county, and employment size.....	5701,
	7217-24, 9725
announcement and order form.....	7191
prices of products distributed through own retail outlets, etc., equalize, hearings.....	15948
production workers' earnings, May 1958.....	5167
rates of return in selected industries, FTC report.....	12677
sales, inventories, etc., industry survey.....	2347, 10878
seasonally adjusted employees by major industry group, 1947-58.....	1976
selected classes of products, value of shipments.....	4349
shop noise, keeping from nearby residences.....	15189
small manufacturers—	
cutting costs with industrial adhesives.....	13586
managements aids.....	6930, 9487-88,
	13580-581, 15183-185, 17073
annual compilation.....	9489
technical aids.....	6933, 13585-586, 15189
statistics—	
by major industry groups, 1957, 1956, 1955, 1954.....	9702
compilation methods, etc.....	15466
metropolitan areas, by major industry groups, 1957, 1956, 1955, 1954.....	9703
wood use by firms in Minneapolis and St. Paul.....	17460
see also names of manufactured articles.	
Manures, see Fertilisers.	
Manuscripts, printed at GPO, typing instructions.....	9043
Many-particle theory.....	5635
Manzanita, pulping by sulphate process.....	10175

# INDEX, 1959

	Entry		Entry
Mao Tse-Tung:		Maps and charts—Continued	
Chinese Communist Party's attitude toward his capacity as leader.....	14957	Mississippi River Commission—announcement of map folio.....	5210
Mao lost a round.....	5010	notices.....	3878, 16740
reminiscences of Li Kai-wen as cook.....	6559	national atlas sheet, topographic mapping status—	
Maple:		areas outside continental U.S.....	14752
Acer species, American wood.....	9087	United States.....	14753
bigleaf, silvical characteristics.....	6267	nautical charts, national atlas sheet.....	11855-859
cleaning plastic equipment used in handling sap.....	4156	offset printing, effect of thickening screen lines, USSR study.....	3712
sugar maple, hardwoods, seed dispersal, upper peninsula of Michigan.....	14727	Poland, status of cartographic data on area.....	6419
Maple sirup, scale in evaporators, how to remove.....	3051	published by Geological Survey, general information.....	7849
Mapping, see Maps and charts.—Photographic surveying.		radio facility charts.....	10757
Maps and charts:		small-scale maps, accuracy in cartographic production, USSR.....	3713
aeromagnetic survey interpretation, Indiana.....	519	terminal forecasting reference manual.....	4125
aeronautical charts, national atlas sheet.....	11851	3 maps of Indian country.....	4945
local, index.....	11852	weather, preparation and use at sea, guide to mariners.....	17151
sectional, index.....	11853	Weather Bureau, daily synoptic series.....	2985
world, index.....	11854	see also Aerial mapping—Atlases—Terrain—also subjects.	
Air Force communications-electronics, information source, Air Force manual.....	15345	Marcella, Concetta, see Meglio, Concetta M.	
Air Force Department—		Margarine, see Oleomargarine.	
aeronautical charts, new editions.....	2290, 10742	Maria Annunziata, Sister, see Carbone, Teresa.	
radio facility charts.....	2307-12, 10760	Maria Tarcisia, Sister, see Penuta, Maria G.	
supplements.....	2308A, 10759	Marine aids, see Navigation.	
Antarctica, annotated list.....	8020	Marine animals, see Marine fauna.	
bird's eye view cartography.....	1807	Marine atlases, see Atlases.	
cartography—		Marine borers:	
Communist China.....	17614	control—	
People's Republic of China.....	16579	distillation residue studies.....	10542
Union of Soviet Socialist Republics.....	636	marine wood preservatives, toxicity screening test.....	16992
Census Bureau, congressional districts, Jan. 7, 1959.....	4352	Marine Corps:	
Central Scientific Research Institute, USSR, proceedings, excerpts.....	1797	award manual.....	6852
Coast and Geodetic Survey—		builds men, what's it like to become a marine.....	9331
aeronautical charts, dates of latest prints.....	2406, 10935	commandant with rank of general, nomination of David M. Shoup, hearing.....	16193
instrument approach procedure charts and airport obstruction charts, dates of latest prints—		flight training.....	9332
eastern U.S.....	2407, 10936	lieutenant generals, peacetime limitation, report.....	4579
western U.S.....	2408, 10937	management review.....	2869, 11410
radio facility charts, dates of latest prints.....	2409, 10938	manual—	
copyrighted—		changes.....	911, 1980, 3834, 6641, 8021, 10415, 14981-982, 16680
July-Dec. 1958.....	7648	index, v. 1 and 2.....	1979
Jan.-June 1959.....	16233	nominations, 85th Cong. 2d sess., index.....	9936
Federal Power Commission, principal electric facilities.....	16335-342	officers—	
Federal supply schedules.....	7734, 10118	promotion, provide improved opportunity—	
foreign agricultural trade outlook charts, 1960.....	17435	hearings.....	4633, 10030
geodesy and cartography (USSR periodical), abstracts.....	10798	law.....	14010
Geological Survey released only in open files, 1958, list.....	12765	reports.....	4581, 4607, 12473
Germany, area generalization.....	3701	register—	
graphic-locator method in geologic mapping.....	10191	departmental edition.....	9431
Hydrographic Office—		document edition.....	8532
charts, correction list.....	9132	personnel requirements criteria manual.....	13306
nautical charts, index catalog, monthly corrections.....	2668, 11027	publications, price list.....	5379
long range perspective of scientific work in Central Administration of Geodesy and Cartography, Czechoslovakia.....	5028	regular, reserve, officer, programs and opportunities.....	3835
mapping observations, Peking to Canton.....	567	temporary military training unit, agreement with Haiti.....	2155
market analysis, information sources, bibliography.....	17075	see also Armed Forces.	
		Marine Corps Reserve:	
		reserve marine (periodical).....	2780, 11322
		retirement plan, basic information.....	16679
		Marine engineers, career opportunities, Maritime Administration.....	9333

# JANUARY-DECEMBER

	Entry
Marine fauna, salt water research laboratory at Seattle, Wash., construction, report.....	14497
Marine inspection, <i>see</i> Ships.	
Marine Inspection Bureau of People's Republic of China, work.....	14802
Marine insurance, peaceful uses of nuclear energy 3d party liability (remarks).....	403
Mariners, <i>see</i> Submariners.	
Mariner's weather log.....	2989, 11541
Marines, <i>see</i> Marine Corps.	
Marinski, Hirsh, relief.....	14402
Marion County, Kans., geology and construction-material resources.....	6284
Marisa, Sister, <i>see</i> Nutricati, Carolina.	
Marital status, <i>see</i> Marriage.	
Maritime academies, Federal assistance, hearings.....	320
Maritime Administration:	
activities (remarks).....	8989
activity in handling transactions of Onassis companies, hearings.....	319
career opportunities, naval architects and marine engineers.....	9333
current regulations, index.....	6130
operations and activities, status, hearing.....	8744
programs and policies in regulating water transportation to Alaska (remarks).....	3463
releases:	
NR series.....	2546, 11084
speeches, SP series.....	2547
report, 1958.....	
departmental edition.....	1624
document edition.....	1526
SP series.....	408
3462-63, 4817-18, 6126-29, 8988-93, 10101, 12647, 14627-628, 16324, 17406.	
Maritime Consultative Organization, Intergovernmental, <i>see</i> Intergovernmental Maritime Consultative Organization.	
Maritime industry, <i>see</i> Merchant	
Maritime services, <i>see</i> Shipping.	
Maritime service, <i>see</i> Shipping.	
Markers:	
day, heliport, technical standard order.....	10099
segmented circle airport marker system, technical standard order.....	10098
Marketing, <i>see</i> Markets and marketing.	
Markets and marketing:	
acreage-marketing guides.....	17, 3009-10, 4135, 11359
adjusting to changing conditions, report of 1958 national marketing service workshop.....	13678
agreements and orders, etc., statutes, compilation.....	3048
agricultural marketing (periodical).....	2190, 10647
changing food markets and agricultural producers.....	6115
Commerce Dept. publications for use in marketing and distribution.....	11768
developing American markets through Seaway (address).....	7255
distribution data guide.....	2332, 10793
indexes.....	2332
do we want export markets.....	6114
farm cooperatives, statistics, 1957.....	8980
Federal Government influence in next decade (text of address).....	9747
foreign crops and markets (periodical).....	2641, 11180
foreign marketing research organizations, directory.....	7768

	Entry
Markets and marketing—Continued	
fruit auctions, changing role.....	8324
Government facts and figures for decisions (address).....	1457
Indian market changes call for action by U.S. business.....	4871
indigenous materials marketed by peoples of foreign countries (address).....	6218
marketing sales figures talk.....	13584
management, importance in technical cooperation.....	12783
market diseases of beets, chicory, etc.....	8306
market news, reviews and statistics.....	2212
market research use to improve business (address).....	17177
marketing and transportation situation.....	2213, 10668
marketing bulletin.....	15314
marketing quotas and allotments, statutes, compilation.....	3048
marketing research (resume of talk).....	33A
marketing research reports.....	99-105, 1311-15, 3063-70, 4176-85, 5544-5550, 7054-62, 8318-25, 9610-12, 11630-641, 13728-735, 15315-325, 17198-201.
national directories for use in marketing, bibliography.....	17843
news, survey of radio and television broadcasts.....	4137
research procedures, bibliography.....	15187
small marketers aids.....	1169, 4055-56, 6932, 8219-20, 9492-94, 17076, 17884
annual.....	10581
States service programs.....	11561
statistics and maps useful in national analysis, bibliography.....	17075
tung nuts, improving.....	103
U.S., effect of private foreign investment, hearings.....	16196
<i>see also</i> names or classes of commodities, etc., marketed.	
Marking:	
aluminum, magnesium, and titanium, identification, Federal standard.....	14649
black spruce for cutting, costs in northern Minnesota.....	3566
for shipment and storage, military standard.....	1583
for shipment, specifications, list.....	5602
imported articles repackaged in U.S., amend tariff act, report.....	15856
iron and steel products, Federal standard.....	10112
petroleum and related products, military standard.....	359
prices, produce in retail food stores, improved method of marketing, study.....	100
requirements—	
Norway.....	4885
Philippines.....	14694
Portugal.....	462
Marksmanship, <i>see</i> Shooting.	
Marquesas Islands, fishery and environment data of area.....	9049
Marquette, Mich., electric facilities of area, map.....	16336
Marriage:	
marital characteristics of workers.....	1466
overseas commands, Air Force personnel to aliens, requirements and procedures, personal affairs guide, pamphlet.....	4230
records, where to write.....	2008
statistics, 1957.....	15113
United States, Alaska, etc., 1957.....	9412
United States and each State, Alaska, etc., 1957.....	9418

# INDEX, 1959

Marrow:	Entry	Masking method, condition for use and effectiveness in 4-color offset reproduction USSR studies	Entry
bone—		Mason, George, Memorial Bridge, see George Mason Memorial Bridge.	5112
composition in animals following total X-irradiation, USSR study—	18251	Mason, Norman P., nomination to Housing and Home Finance Agency, hearing.	3385
content and metabolism of iron under effects of X-rays, USSR study—	12968	Mason City, Iowa, aircraft accident.	15501
early changes in irradiated animals, USSR study—	16593	Mass (physics):	
luminescence, effect of radioactive isotopes, USSR study—	10376	transfer, thermal-gradient, in sodium hydroxide-nickel system.	6681
luminescent microscopy—		transformation coefficients on horizontal perforated plates at various gas speeds, USSR study—	16597
importance in studying radiation, USSR study—	13254	Mass spectra, see Spectra.	
in action of radiomimetic substances, USSR study—	13255	Mass spectrometers, see Spectrometers.	
MARS, see Military Affiliate Radio System.		Massachusetts Experimental Forest:	
Mars (planet):		general information—	1688
observations during great opposition of 1956, USSR study—	14611	white pine studies—	1688
Soviet research, translations—	17619	Massachusetts:	
Marshall, George C., accept and wear decorations, etc., from foreign governments—	11943, 12052, 12366	census of governments, 1957, State bulletin—	18836
Marshall County, Ky., forest inventory statistics—	10617	electric rate book—	7708
Marshall Islands:		fishing vessels, improved handling of fish—	433
Bikini and nearby atolls (series)—	9119	landings, fishery products—	10123, 11156
radionuclide in plankton—	3168	landings by ports, annual summary 1958—	10122
Marshals, fees, amend U.S. Code, report—	16071	mineral industry—	16708
Marta, Sister, see Guglielmi, Sabina.		port authority, land transfer—	
Martin, Gordon E., relief—	4524	hearing—	12526
Martinez, Clarita, relief—	5957, 11923, 15777	reports—	12164, 14494
Martinsburg, W. Va., aircraft accident—	11818	State income tax withholding regulations on compensations of Federal employees—	6982
Marx, Karl, biography—	14359	Master's degrees, see Degrees (colleges, universities, etc.).	
Marxism in China—	13144	Matanuska coal field, geology, etc., of Little Susitna district, Alaska—	3598
Mary Damion, Sister, see D'Amello, Maria S.		Matanuska River and Valley, western part, coal, subsurface exploration, results—	3598
Mary Regina, Sister, see Lizzi, Maria.		Material Inspection Service, Navy:	
Maryland:		administration manual—	
agricultural conservation handbook—	12	administration of Government property in possession of contractors—	6864, 9436
census of governments, 1957, State bulletins—	11786	contract termination and inventory disposition—	6865
climatological data—	2993, 11546	Materialist theory of reflection and theory of development of living matter, USSR—	16609
electric rate book—	12650	Materials:	
employment and earnings statistics, guide—	7982	behavior and forming, explosive press as research tool—	17004
family and property law—	9550	consumed by specialized establishments in selected industries—	5677
minerals industry, minerals yearbook chapter—	3846	ductile, thermal fatigue—	17741
parkway, administration and maintenance—		indigenous, marketed by peoples of foreign countries (address)—	6218
hearings—	4653, 8735	nuclear radiations effects, report of conference sponsored by Ordnance Materials Research Office—	5367
report—	12180	physico-chemical mechanics, development in Ukraine—	6422
postal service scheme—	17022	reactor, specifications—	1393
precipitation data, hourly—	2996, 11549	standard, National Bureau of Standards descriptive listing—	6801
titanium minerals in heavy sand deposits of Assateague Island—	16731	testing, military construction, Air Force manual—	134
transportation problems in Washington Metropolitan area, hearings, print additional copies, report—	7425	see also Strategic materials—also names of materials, e.g. Abrasives.	
Washington metropolitan areas, coordinate development with development of D.C., report—	12403	Materials (aircraft):	
women—		behavior in supersonic air jet at 4000°F—	16857A
labor laws, summary—	9560		
legal status—	17163		
Maryland Air National Guard, aircraft accident—	3195		
Maryland tobacco, see Tobacco.			
Marysville, Utah, geophysical work, notes—	11735		
MAS series—	1461-62, 4349, 8444, 9702-4, 11772		
Masens, Villa, consultation with staff of Un-American Activities Committee—	17843		



# JANUARY-DECEMBER

	Entry
<b>Materials (aircraft)—Continued</b>	
creep behavior of structural joints under cyclic loads and temperatures	16928
crushable structures for acceleration protection of occupants of vehicles at low impact speeds, investigation	17757
electronic component parts for 500°C operation, research	11689
fatigue strengths	16915
life rafts (twin tube), regulations of administrator	17400
production, etc., technology, USSR study	9254
static strength and creep buckling of unstiffened circular cylinders subjected to bending at elevated temperatures, determination	10505
ultrasonic test standards for aircraft materials, research and development leading to establishment	4275
used for seals, gaskets, and construction, compatibility of pentaborane	16778
<b>Materials (atomic):</b>	
research and training, grant for procurement, agreement with Peru	17862
standards, establishment by Defense Dept., hearing	14101
<b>Materials handling:</b>	
equipment industry, midyear review outlook for 1959	11767
metals industries, State of Minas Gerais, Brazil	10201
technical manual, changes	8151, 5629
<i>see also</i> Cargo handling.	
<b>Materials handling equipment, <i>see</i> Handling equipment.</b>	
<b>Materials survey</b>	3840-41, 16702
<b>Matériel, <i>see</i> Military supplies.</b>	
<b>Maternal mortality, <i>see</i> Mothers.</b>	
<b>Maternal welfare, <i>see</i> Mothers.</b>	
<b>Mathematicians:</b>	
careers in research, examination announcement	15536
examination announcement	5722
discontinuance notice	15527
research opportunities, examination announcement	15533
Soviet, biographies	3795
<b>Mathematics:</b>	
aids for mathematics education (series)	8941-43
analytical continuation of generalized functions, calculations in region of analytics	8392
applied mathematics and mechanics (USSR periodical), abstracts	8425, 10779
applied mathematics series	8094, 13457
bivariate normal distribution function, etc., tables	13457
books for mathematics teachers, list	8941
books for secondary school students	8943
calculating fundamental solutions of wave equation, with tables	16907
constructive theory of functions by polynomials, collected works, 1950-30	5637
general-purpose subroutines for IBM 650 magnetic drum data-processing machine	17740
helps in your career, important for 82 occupations, chart	3824
improving supervisory and consultant services	12594
journal of abstracts (USSR periodical), abstracts	10814

	Entry
<b>Mathematics—Continued</b>	
mathematical and statistical principles underlying military standard 414	3407
mathematical linguistics, USSR conference abstracts	16505
mathematics and your career	8005
mathematics symposium (USSR periodical), abstracts	10827
national defense education act of 1958—	
administration hearings	5924
guide	3420
news of Institutes of higher learning of Ministry of Higher Education, USSR, abstracts	8440, 10846
nonlinear control system	8072
physico-mathematical and natural sciences series, herald of Moscow University, abstracts	10805
physico-mathematical, natural, and technical sciences series news of Academy of Sciences, Armenian SSR, abstracts	10833
progress of mathematical sciences (USSR periodical), abstracts	10856
quantum field-theory problems, equations with variational derivatives	1380
research off-site activities supported in whole or in part by AEC, summaries	11740
scientific tests, standards, publications, price list	9464
secondary school teachers training opportunities 1960 academic year and in-service institutes program	17792
secondary school teaching, reference book list	8942
series, news of Academy of Sciences, USSR, abstracts	10840
students, junior year, fall 1958, survey	16252
tables—	
Clebsch-Gordan coefficients	3162
cotton fiber strength for flat bundle tests at 1/4 inch gauge	11560
osculatory interpolation coefficients	8095
teachers, summer institutes	2076
technical and physicomathematical sciences series, news of Academy of Sciences, Estonia SSR, abstracts	10834
ten years development in liberated Czechoslovakia	621
Ukrainian mathematics journal abstracts	10873
<i>see also</i> Coefficients—Gradients (mathematics)—Lorentz transformation—Numerical calculations.	
Matlon, John C., relief	4483
Matrix theory, steady-state span loading effect on flexible wings in subsonic flight	10501
MATS, <i>see</i> Military Air Transport Service.	
Mattamuskeet National Wildlife Refuge, birds	14668
Mattresses, facts for industry	2371, 10902, 15475
Maul, principal electric facilities, map	16342
Mavridis, Basil L., relief	7350, 13940, 14366
Maxwell, Siglinde G., relief	7524, 8600, 11906
May beetles, <i>see</i> June bugs.	

# INDEX, 1959

	Entry		Entry
May Day, USSR, holiday of labor and peace.....	14910	Meat—Continued	
Mayonnaise:		preservation, effects of aureomycin hydrochloride bath and gamma irradiation tests.....	8394
and related products, production, etc., 1958.....	17275	processing, ration issue, technical manual.....	4303
salad dressing and related products, facts for industry, 1957-58.....	7207	production—	
Mazatzal Mountains, geology of Ord Mine, quicksilver district, Ariz.....	508	monthly reports.....	2234, 10688
MB series.....	6906, 15235	safe wholesome meat (paper).....	11610
Mead, Lake:		United States, by months, 1958.....	7011
recreational opportunities.....	1114	production, trade, coconsumption, etc., statistics.....	8337
water supply outlook and forecast of inflow.....	2908, 11447	purchase specification requirements approved by USDA.....	13691-696
Meadow Schol District, reimbursement, report.....	10042	supplies, outlook (statement).....	5500
Meadow science (Soviet abstracts).....	5039	Meat animals, <i>see</i> Livestock.	
Meadows, cultivation, Soviet abstracts.....	5091, 14891	Meat Inspection Division, appropriations, 1960, Agriculture Dept., hearings.....	7444
	13009, 13165, 13194,	Meat inspectors, Federal, job qualifications, etc.....	1282
Meal:		Mechanic schools, <i>see</i> Schools.	
meat, production.....	3025, 13699	Mechanical designs, <i>see</i> Designs (Industrial.)	
rye, Tariff Commission report.....	13638	Mechanical drawing:	
<i>see also</i> Alfalfa meal.		drafting, PACAF basic bibliographies.....	7111
Meals, <i>see</i> Food.		job descriptions, training, etc.....	17375
Measles, death rates by age, color, and sex, 1949-51.....	10513	Mechanical equipment, <i>see</i> Machinery.	
Measurements:		Mechanical fans, facts for industry.....	2372, 5691, 10903
feed efficiency (talk).....	9594	Mechanical power transmissions, <i>see</i> Power transmissions.	
ground-reaction forces and vertical accelerations at center of gravity of transport airplane taxiing over obstacles.....	16872	Mechanical properties of high purity FeC alloys at low temperatures.....	13571-572
heat transfer and boundary-layer transition on hemisphere-cylinder in free flight.....	16850	Mechanical stokers, <i>see</i> Stokers (mechanical).	
measurement and prediction of foreign language speaking ability.....	9566	Mechanics (persons):	
measurement techniques (USSR periodical), abstracts.....	10828	aircraft, job proficiency qualifications data analysis.....	9643
total hemispherical emissivity of stably oxidized metals and refractory oxide coatings.....	8926	applied mathematics and mechanics (USSR) periodical), abstracts.....	10779
U.S. territorial sea.....	17855	armament-electronics maintenance, accuracy of information on line work orders.....	5609
<i>see also</i> Radio measurements.		automotive repairman, MOS efficiency test aid.....	159
Measures, <i>see</i> Weights and measures.		aviation structural mechanic I & C, Navy training courses.....	17794
Measuring instruments, weighing and measuring, 1959 correction sheets.....	17769	certificates, etc., civil aeronautics manual.....	7689
<i>see also</i> Electric measuring instruments—Psychrometers.		equipment maintenance with various numbers, simple analysis.....	17236
Meat:		machinery repairman, Navy training courses.....	6847
Chicago, Ill., industry, communist infiltration and techniques, hearings.....	12316	office appliance repairman, examination announcement.....	8473
distribution in Los Angeles area.....	13730	radar repairman, MOS proficiency test aid.....	11697
foreign agriculture circulars.....	2643, 11182	Mechanics (science):	
foreign trade prospects.....	3524	applied mathematics and mechanics (USSR periodical), abstracts.....	8425
freezing, protective effect before gamma radiation, research.....	8395	journal of abstracts, mechanics (USSR periodical), abstracts.....	10815
grading certification, rules and regulations.....	15274	physico-chemical, development of materials in Ukraine.....	6422
home canning directions.....	1306	Mechanization:	
household consumption, review of 1955 survey data.....	17168	agricultural machinery and equipment survey, Asia.....	15457
inspection—		mechanization of construction (USSR periodical), abstracts.....	7180
Federal veterinarian, facts concerning job.....	9590	road-building operations in USSR.....	14847
sanitation requirements of Federal meat grading service.....	13681	spinning process, economy points of view.....	802
inspection services, appropriations, 1960, Agriculture Dept., hearings.....	7444	USSR construction during postwar period.....	626
irradiated, use of additives in eliminating undesirable effects.....	6920	<i>see also</i> Automation.	
livestock and meat situation.....	2210, 10665	Mechta, <i>see</i> Rockets.	
market news weekly summary and statistics.....	10666	Medal of Honor, pensions to holders, increase, report.....	8676
meal, production.....	3025, 13699		

# JANUARY-DECEMBER

	Entry
<b>Medals:</b>	
award, when recommending reports	
lost, report.....	8658
commemorative—	
admission of Kansas, report.....	16077
admission of West Virginia—	
law.....	14039
reports.....	12408, 14238
establishment of Air Force Academy—	
law.....	9785
reports.....	8666, 8829
100th anniversary of discovery of silver in U.S.—	
law.....	8514
report.....	7571
100th anniversary of founding of pony express, report.....	18076
settlement of Colorado—	
law.....	9785
reports.....	8666, 8829
Navy and Marine Corps awards manual.....	6852
see also Decorations of honor—also names of medals or persons to whom medals are to be presented.	
<b>Mediators, examination announcement.....</b>	<b>265</b>
<b>Medical bulletins, Medicine and Surgery Dept., VA.....</b>	<b>6996, 15235</b>
<b>Medical care:</b>	
aged, financing—	
expert views summary.....	16216
hearings.....	12561
Air Force manuals.....	136, 3106, 4225, 15348, 17219
Air Force pamphlets.....	142-144, 3111-13, 4253-56, 5593-94, 7099-7105, 8364.
children, Azerbaydzhan SSR, medico-sanitary service.....	16610
civilian employees, overseas, improve, administration, hearings.....	9919A
medical industry development in communist Russia, USSR plans.....	10372
facilities, construction act with amendments, compilation.....	4426
Federal employees group medical and hospitalization program desirability investigation, expenses, reports.....	4701, 4703
hospital policy of VA, hearings.....	4662
in China.....	6500
radio advice to ships at sea, ILO recommendations.....	7339
Soviet Union, articles from military medical journal.....	1816, 1846, 3741, 5640
treatment facilities, administration, Air Force manual.....	15348
uniformed services personnel dependents, annual report.....	11716
<b>USSR—</b>	
ambulatory, polyclinic, and hospital aid in urban and rural medical establishments, statistical data.....	16607
health facilities.....	772, 5074
health protection improvement.....	13245
mass attack preparations.....	16613
veterans residing abroad, include those with peacetime service-incurred disabilities—	
law.....	14008
reports.....	14203, 14433
victims of radiation exposure from Y-12 accident, June 16, 1958.....	11733
<b>Medical certificates:</b>	
airmen, physical fitness, civil air regulations amendments.....	3442, 16301
airmen's physical standards, civil aeronautics manual.....	17393

	Entry
<b>Medical certificates—Continued</b>	
civil air regulations amendment, certificates and renewal.....	3446
<b>Medical Department, Army, surgery in World War II.....</b>	<b>1373</b>
<b>Medical Department, Navy:</b>	
manual.....	10417
officers, guide.....	913
Medical education, see Medicine.	
Medical entomology, manual.....	1981
Medical examinations, see Physical examinations.	
Medical geography, Rumania, considerations.....	1875
Medical groups, problems of cadres in Kirgiziya, USSR study.....	17653
<b>Medical instruments and apparatus:</b>	
electromedical equipment, plan to increase output in USSR.....	14963
Federal supply schedule.....	17419
industry—	
development in USSR.....	12920
40 years of Soviet rule, USSR study.....	1905
radio services, FCC rules and regulations.....	12636, 14616
<b>Medical journal:</b>	
Armed Forces.....	2491, 11024
supplements.....	2492, 11022
<b>Medical libraries, see Libraries.</b>	
<b>Medical literature:</b>	
bibliography of reviews.....	13466
current lists.....	2855, 11396A
index, v. 34.....	3958
PACAF basic bibliographies.....	3117
Medical materiel, see Medical supplies.	
Medical news letter.....	2781
<b>Medical Nutrition Laboratory, see Army Medical Nutrition Laboratory.</b>	
<b>Medical officers:</b>	
boards to determine mental competency of members of uniformed services, appointment, amend act—	
law.....	12022
reports.....	4598, 12468
career opportunities with Federal government in U.S. and foreign countries.....	1496
examination announcements.....	1496, 1494
discontinuance notice.....	1498
supplement.....	1498
see also Physicians.	
<b>Medical radiology (USSR periodical):</b>	
translations.....	9165
<b>Medical radiology, USSR study.....</b>	<b>814</b>
<b>Medical records:</b>	
for casualties, technical manual.....	8470
patient asks for medical report for social security purposes.....	1137
tabulating equipment and Army medical statistics.....	15393
<b>Medical research, see Medicine—Polymyellitis.</b>	
<b>Medical Research Laboratory, see Naval Medical Research Laboratory.</b>	
<b>Medical Research Year, see International Public Health and Medical Research Year.</b>	
<b>Medical schools:</b>	
quality of training of students, USSR study.....	12970
United States, present and future needs, report.....	17046
<b>USSR—</b>	
academic experience and methods of improving teaching of epidemiology.....	17567
immediate tasks.....	12872
<b>Medical service, see Medical care.</b>	
<b>Medical social work, specialists, examination announcement.....</b>	<b>1490</b>

Do not order from index; see indicated entry

Page 321

# INDEX, 1959

	Entry		Entry
Medical specialists:		Medicine—Continued	
irradiation injury during diagnos-		medical research planning and or-	
tic procedures, USSR study	12938	ganization, scientific develop-	
military service, extend act—		ment (address)	6996
hearings	3318, 4735	medical science development in	
law	5778	Uzbekistan	16605
reports	3313, 4546, 4729	medical science in service of So-	
training in RSFSR, 1959-65 plan	9259	viet public health	816
Union of Soviet Socialist Republics,		medical science publication	8391
biographical sketches from		medical science reorganization prob-	
Bol'shaya meditsinskaya entsi-		lems, USSR study	1923
klopediya	6455	medical science urgent tasks, 21st	
Medical supplies:		Congress of CPSU decisions,	
deletion of medical materiel items		USSR study	17652
from Armed Services medical		medical unit training guide, Air	
stock list, Air Force pam-		Force manual	17219
phlets	144, 3113, 4256	medical workers militant task ful-	
Federal item identification guides		fillment of resolutions of 21st	
for supply cataloging	358	Congress of CPSU	10366
Federal supply schedules	409, 17420	mosquitoes, medical importance	15302
industry, development in USSR	12920	national defense	8923
items newly stock listed, Air Force		National Library of Medicine—	
pamphlets	143, 3112, 4254-55	catalog, 1958	9328
Krasnogvardeyskiy plant, USSR		services	2062
studies	7958	Navy, statistics, monthly high-	
medical materiel items, Federal		lights	2782, 11325
supply catalog—		New China, advances	12966
addition, Air Force pamphlets	7102-3	problems approved for study by	
deletion, Air Force pamphlet	7104	Ukrainian SSR, 1959-65	6620
medicinal gases, Air Force pam-		radiation and radioisotopes utiliza-	
phlet	3111	tion in USSR	724
ships medicine chests, ILO recom-		radiation problems, USSR study	14947
mendations	7339	radioelectronics use in USSR, out-	
Medical technicians, bulletins	2492, 11022	comes and prospects	17579
Medical technologists, examination		radioisotopes in medicine, list of	
announcement	5730	references	192
Medical zoology, see Zoology.		research—	
Medicine:		mobilize scientists in U.S. and	
Air Force, medical training, unit		abroad, hearings	7642
training standard, AF manual	5571	particularly clinical, situation in	
analectics, Soviet abstracts	5032	West Germany	3683
Armed Forces medical journal	2491, 11024	progress on air pollution	4027
supplement	2492	research act of 1959—	
chemistry, next tasks, USSR plans	12869	hearings	15949
Chinese national, status, summary		report	7577
of conference data	9258	research and development in west	
Chinese traditional and Western		Germany	679
medical practices combine,		statutory authority	4741
create new radiology	9196	scientific medical research, prospec-	
clinical, Academy of Medical Sci-		tive plan in Armenian SSR	6621
ences, USSR, activities, 1958	14911	Sino-Soviet cooperation in field of	
Communist China, survey of com-		medical science, USSR study	6488
bined-practice clinics using		some problems in reform of higher	
Chinese native and western		education, USSR studies	17565
methods	9212	Soviet medical techniques, 1956-65	17572
development of medical science in		space, Jupiter shot carrying mon-	
USSR, prospects for 1959-65	9228	keys in nose cone, hearing	14353
film reference guide	13467	Soviet—	
formulary of Army Medical Service	5628	impressions of U.S. Public Health	
future international meetings,		Mission	8198
world list	11319	medical industry	1824
history, new stage in USSR	10385	medical personalities, biogra-	
international research, background		phies	7924
materials, compilation, report	6028	problems, prospective plans for	
medical bulletins	6996, 15235	solution	9227
medical education, U.S., present		tabulating equipment and Army	
conditions and future needs,		medical statistics	15393
report	17046	tasks in 7-year plan, USSR study	12894
medical health facilities in USSR	772, 5074	use of electronic computers, USSR	17571
medical industry development in		USSR medical entomology, achieve-	
Communist Russia, USSR		ments, 1917-57	16510
plans	10372	USSR problems in reform of higher	
medical industry in 1959-65, USSR	10350	education	17563
medical literature, current list	2855, 11396A	Vietnamese Association of Eastern	
index, v. 34	3958	Medicine, constitution	3651
medical microbiology, teaching to		see also Veterinary medicine.	
bring closer to requirements of		Medicine and Surgery Bureau, Navy:	
life, USSR study	17566	organization and functions, officers	
medical news letter	2781, 11324	guide	913
index, v. 32	5184	report, 1958	16681
medical research in Veterans' Ad-		Medicine and Surgery Department,	
ministration, report	323	Veterans Administration:	
		medical bulletin	6996
		program guide special service	13654
		Medicine Lake, guaternary geology of	
		area	7848



	Entry		Entry
Medicines, see Drugs.		Memphis, Tenn.:	
Medico-Biological Sciences Division, Academy of Medical Sciences, USSR, research activities.....	7899	board of trade clearing associa- tion, futures trading and open contracts in soybean meal and cottonseed meal.....	2431, 10964
Medina County, Tex., geology and ground-water resources.....	14760	electric facilities of area, map.....	16341
Mediterranean Sea:		ground-water supply of area.....	4929
lights and fog signals, list.....	528,	occupational wage survey.....	7976
4936, 12778,	17498	documental edition.....	7323
sailing directions.....	6311	Mendocino, Lake:	
change.....	1719	designate—	
tide tables.....	7250	law.....	14056
Meditsinskaya radiologiya (period- ical):		reports.....	7404, 14481
translations.....	9165	Meningitis, nonmeningococcal, death rates by age, color, sex, U.S., 1949-51.....	8111
Medvesek, Aurelia M., see Pozar, Aurelia M.		Meningococcus, infectious, death rate by age, color, and sex, 1949-51.....	5330
Meetings, see Conferences, congresses, etc.		Menopause, health information series.....	17041
Megilo, Concetta M., relief.....	12514,	Men's clothing, see Clothing.	
13968,	14145	Mental defectives, see Mentally ill— Mentally retarded.	
Meigs County, Tenn., forest inventory statistics.....	17137	Mental health:	
Melampsora, rating poplars for leaf rust infection.....	17470	concepts and consultation, their ap- plication in public health so- cial work.....	5718
Melanoplus, mexicanus group, classi- fication, biology, etc.....	13469	introductory readings.....	17777
Meldahl, Anthony, locks and dam, see Captain Anthony Meldahl locks and dam.		mental health for parent and child, reading list.....	16948
Meldrim, Ga., railroad accident.....	14793	national program and States.....	5317
Mellorine, see Ice cream, ices, etc.		pamphlets, etc., reading list.....	16945
Melons:		problem today, facts.....	13462
production, Soviet abstracts.....	738, 3730	project grants, opportunities through NIMH program.....	6811
spring, acreage-marketing guides.....	17	psychiatric traineeships for nurses.....	8105
summer, acreage-marketing guides.....	8009	publications for teachers and pu- pils, selected reading list.....	5318
transportation and marketing, ef- fect of heavier loading of rail shipments (address).....	7013	research, highlights of progress.....	9402
see also Muskmelons.		State authorities, proceedings of 1959 conference with PHS.....	17047
Melrose Park, Ill., population, special census.....	7196	statistics, current reports.....	6810
Melting, vacuum-induction, vacuum- arc, and air-induction, of com- plex heat-resistant alloy.....	13443	uniformed services personnel, ap- pointment of medical boards to determine, amend act—	
Melts:		law.....	12022
binary, eutectic type, determina- tions of probability of formula- tion of crystalline nuclei, USSR study.....	12928	reports.....	4598, 12468
crystallization processes, kinetics, USSR study.....	16598	Mental hospitals, see Mental institu- tions.	
Meltzer, Milton, testimony of and about, hearing.....	8900	Mental institutions:	
Memaloose Island: set aside for The Dalles Dam project—		patients, 1956.....	8104, 15094, 17775-776
law.....	11959	private, mental defectives and epileptics, 1956.....	17776
reports.....	7386, 8839	public—	
Member banks, see Federal reserve member banks.		mental defectives and epileptics, 1956.....	15094
Membranes, polarization.....	13799	patients, 1957-58.....	6810
Memorandum for aviators.....	2667, 11206	State hospitals 1st admissions, patterns of retention, release, and death.....	17832
Memorandums, see names of depart- ments, etc., issuing memoran- dums—also subjects.		Mental tests:	
Memorial Day, May 30, 1958, burial of Unknown American of World War II and Korea, word-and- picture-stories.....	7133	approach to individual analysis in educational and vocational guidance.....	1591
Memorial services:		ink blot method use in determining characteristics of signal sys- tems in persons of different temperament, USSR study.....	14958
Air Force manual.....	3108	nonstandard administration, statisti- cal methods for detection.....	5604
Christopher, George H.....	17310	prediction of Air Force training and proficiency criteria from Armed Forces selection tests.....	17232
Eberharter, Herman P.....	18907	use in development of criteria for marginal manpower, survey of literature.....	1237
Lincoln, Abraham, commemorative ceremony.....	15769	Mentally ill:	
McGregor, J. Harry.....	15556	estate tax treatment, amend in- ternal revenue code—	
McVey, William E.....	275	law.....	12019
Neely, Matthew M.....	276	reports.....	4592, 12416
Reed, Daniel A.....	17309	facts on causes, treatment, etc., of mental illness.....	13462
Scott, William K.....	277	private hospitals, 1956.....	17775
Simpson, Sidney E.....	13908		
Memorials, see names of memorials— also names of persons to whom memorials are erected.			

# INDEX, 1959

	Entry
Mentally ill—Continued	
public hospitals, 1956	8104
1957-58	6810
vocational rehabilitation program, psychological services	15236
Mentally retarded:	
children—	
education, bibliography	6091
home care and training, manual for parents	3192
institutions, donations of surplus property, report	16101
education, leadership preparation, graduate fellowship program	14594
private institutions, 1956	17776
public institutions, 1956	15094
vocational rehabilitation program, psychological services	15236
Menus, planning meals for Navy	6971
Menz, Isabel M., relief	12348, 13950, 14135
Mercer County, N.J., industrial training program study	15371
Merchandise, see Commercial products.	
Merchandizing, frozen food by locker and freezer providing plants	7055
Merchant, Livingston T., nomination, hearing	6058
Merchant marine:	
act of 1920, amend—	
hearings	314, 7629, 12552
act of 1936, amend—	
hearings, etc.	15951-952, 15954
laws	12006, 12008, 12013, 15620, 15724
reports	7555, 8808, 1004-18, 12139-40, 12145, 12247, 12398, 14210, 14291, 14294, 14512
views	10004
Alaska and water transportation problems remarks	3462
condition (address)	6127
Gulf area, etc. (address)	4818
increased earning capacity through nuclear propulsion (remarks)	8992
maritime program and problems (address)	6126
nuclear power effect on Maritime industry (address)	8993
nuclear powered ships, recommendations for long-range building program, hearings	7473
operation in U.S. domestic trade, amend act, hearings	314
ownership change, etc., of vessels	11013
personnel, deck officers, specimen examinations	8247
related matters (remarks)	8990
report of status (remarks)	8991
research and development for tomorrow's merchant marine (address)	7261
research and development program (remarks)	8989
role in trade and defense (report)	12647
role in world affairs (address)	13904
St. Lawrence Seaway highway (remarks)	6129
statistics, 1959	14580
war risk insurance, extend authority—	
law	12006
reports	8808, 12139
your Government and American merchant marine (address)	7272
see also Sailors—Shipping—Ships.	
Merchant Marine Academy, Kings Point, officers, program for development of	8024

	Entry
Merchant Marine and Fisheries Committee, House:	
calendars	2457, 10988
hearings	814-815, 817-829, 7473-74, 8744, 12301-302, 14347, 15951-954, 17386-837
investigations and studies, matters within its jurisdiction, authorization, reports	8290, 4559
presentation of portrait of Herbert C. Bonner, chairman, proceedings	1514
reports	12138-140, 12145, 12150-154, 12165-168, 12248-249, 12251-252, 12256, 14208, 14210, 14213, 14291, 15294-296, 15815-816, 15837-838, 15844, 15846, 16041
Merchant Marine Council, proceedings	2415, 10946
Merchant Marine Meritorious Service Medal, award to master of Meredith Victory steamship, report	14499
Merchant seamen, see Sailors.	
Merchant ships, see Ships.	
Merchant vessels, see Ships.	
Mercury:	
Industry, expansion Attorney General's report	4738
minerals yearbook chapter	15003
Mines Bureau research plan	13327
production, etc., 1958	9342
quicksilver, Tariff Commission report	1210
quicksilver deposits, Ord Mine, Mazatzal Mountains, geology, recovering from cinnabar-stibnite ore by combined flotation-roasting process	3572
report, quarterly	2812, 11357
Meredith Victory (steamship), Gallant Ship Unit Citation, award, report	14499
Mergers, see Business consolidations.	
Meridional meteorological profiles, USSR study	7903
Meritorious Service Medal, Merchant Marine, see Merchant Marine Meritorious Service Medal.	
Merritt-Chapman & Scott Corp. of New York, use of vessel John F. Drews in coastwise trade	15577, 15781, 16041
Mesons, K-mesons, general characteristics, etc.	15395
Mesothorium, poisoning, dosimetry and instrumentation techniques in applied radioactivity	4308
Mesquite, pulping by sulfite and cold soda process	10175
Messengers:	
Capitol Page School, general information, print, report	8628
employment under fair labor standards act	1223
Sergeant at Arms of the Senate, additional messengers, report	7569
Metabolism:	
balance studies, manual	2060
carbohydrate-phosphate, in brain during hypothermia and hypoxia, USSR studies	6523
intermediary, fishes and other aquatic animals	9050
iron, in bone marrow, changes under effects of X-rays, USSR study	12968
nitrogen—	
certain features of chemical integration of processes, USSR study	17651

# JANUARY-DECEMBER

	Entry		Entry
Metabolism—Continued		Metallurgy—Continued	
nitrogen—continued		mineral treatment processes for	
effect of small doses of radioactive phosphorus, USSR studies	6446	percentage depletion purposes—	7493
problem of vitamin C and aromatic amino acids in radiation illness, USSR study	6593	bearings, additional copies, report	7372
vitamins in human body, effects of vibration influencing, USSR study	14916	nonferrous—	
Metal alkyls, see Alkyl compounds.		labor productivity, USSR	7947
Metal hydrides, see Hydrides.		Soviet, translations	17617
Metal-indicator systems in (ethylene-dinitrilo) tetraacetic acid titrations	179	Soviet Russia	653
Metal mines and mining:		USSR, selected translations	9202, 17617
high production working in certain polymetallic mines, basic indicators of effectiveness, USSR	3691	nonferrous enterprises production processes automatization in USSR	645
labor turnover rates per 100 employees	7994	Northwest Electrodevelopment Experiment Station, progress reports	15435, 17268
Metal sheeting, see Sheet metal.		processes and apparatus, Government-owned inventions available for license	11868
Metal-working machinery, see Metal-working machinery.		pyrometallurgical processes, physical chemistry	4306
Metallic minerals	654	research and development, annual report	17256
Metallography:		scientific reports of higher schools, metallurgy (USSR periodical), abstracts	10865
and physics of metals, problems, symposium	15394	steel, USSR quality	12907
group meeting, technical papers	11750	summaries of AEC physical research projects	13802
metallography and heat treatment of metals (USSR periodical), abstracts	10829	technology review, minerals, year-book chapter	8054
physics of metals and metallography (USSR periodical), abstracts	10851	uses of radioactive isotopes, symposium	1374
use of diamond abrasives in problems	5365	see also names of metals.	
see also names of metals.		Metals:	
Metallurgical plants, Communist China's industry	558	and metal products, prices and price indexes, 1957	898
Metallurgical slimes, Bolivian, volatilization of tin chloride	6672	bonding by isostatic pressing at elevated temperatures	7151
Metallurgists:		chelates, substituent effects of stability	180
careers in research, examination announcement	15536	corrosive effects of plastics	13327
examination announcements	5722, 5747	cubic, application of Morse potential function	17766
discontinuance notice	15527	damping capacity	6663
metallurgist (USSR periodical), abstracts	10830	extrusion, shape changes of internal surfaces	185
research opportunities, examination announcement	15533	fabricated products—	
Metallurgy:		labor turnover rates per 100 employees	7986
Ames Laboratory research summary report	181	manufacturing plants, location by county and employment size	7222
Communist China, conference on activities of Academia Sinica	6556	Federal test method standard	10119
ferrous—		hard cemented, stably oxidized, total hemispherical emissivity measurements	9381
development in Georgian SSR	7919	high temperature conference, USSR studies	5080
development in Hungarian People's Republic	12909	industries—	
USSR, translations	5133	injury experience, 1955	16696
health and safety problems in powder metal handling	4317	labor turnover rates per 100 employees	7997
high-temperature, Soviet, translations	17605	material handling, plant layout and methods, State of Minas Geratis, Brazil	10201
industry—		liquid—	
Communist China, information	602	boundary-layer solutions for forced and free convection	5294
German Democratic Republic, development	12910	turbulently flowing, heat transfer solution with step function boundary temperature	5279
Poland, anticipated electric power demand	688	losses with slags of shaft lead smelting, USSR studies	1795
journal abstracts (USSR periodical), abstracts	10816	materials consumed by specialized establishments in selected industries	5677
light metals	1788	metallography and heat treatment of metals (USSR periodical), abstracts	10829
low shaft furnace, contribution in GDR	1791	metallography and physics of metals, problems, symposium	15394
metallurgist (USSR periodical), abstracts	10830		

# INDEX, 1959

	Entry		Entry
<b>Metals—Continued</b>		<b>Meteorological apparatus and instru-</b>	
minerals yearbook, 1957—		ments—Continued	
departmental edition.....	940	project prairie grass, field program	
document edition.....	303	in diffusion.....	1852-53, 17224
minor—		see also Radiosondes—Wiresondes.	
minerals yearbook chapters.....	15025, 15026, 10441	Meteorological balloons, see Balloons.	
production, etc., 1958.....	2001, 10441	Meteorological commission of Moscow	
noble metals, hydrogen systems,		affiliate of Geographic Society	
electrochemical mechanisms.....	16985	of USSR.....	1882
noble, thermoelectric properties.....	13793	Meteorological Society of China, 2d	
nonferrous—		and 3d enlarged council meet-	
deposits and processes in USSR.....	12949	ings, summary.....	10344
nonferrous metals (USSR period-		Meteorologists:	
ical), abstracts.....	7182	general, examination announcement	
rolling mills, automation.....	651	meteorological aid, examination an-	
Nuclear Metals, Inc., quarterly pro-		ouncement discontinuance no-	
gress report, July 1-Sept. 30,		tice.....	7240
1958.....	3164	Meteorology:	
physics of metals and metallog-		agricultural, conference of chiefs	
raphy (USSR periodical),		of stations, USSR.....	1897
abstracts.....	10851	agricultural service to farms and	
primary industries, manufacturing		machine-tractor stations,	
plants, location by county and		USSR.....	871
employment size.....	7222	atomic explosions influence on at-	
production, etc., technology, USSR		mosphere, USSR study.....	14842
study.....	9254	calculating effect of nonlinear terms	
rare earth, production, etc., 1958.....	10442	of equations in solution of	
rare or unusual, selection and eval-		problems on short-range pres-	
uation for application to ad-		sure and temperature forecast	
vanced weapons system.....	15365	commission of Moscow affiliate of	
refined, operations at brass and		Geographic Society of USSR,	
wire mills.....	2832, 11374	meetings, etc.....	1882
refractory, literature search.....	4323	Czechoslovakia—	
scrap, duties and import taxes, sus-		history.....	849
pension—		10 years of meteorological bul-	
law.....	12002	letin.....	848
reports.....	9878, 12420	dynamic—	
secondary, nonferrous, minerals		barotropic development of eddies.	
yearbook chapter.....	16734	principles, USSR studies.....	5596, 1796
separation by ion-exchange single-		effect of various factors on organ-	
pass method.....	1386	ism and criticism of them,	
solid, ignition temperatures, inves-		USSR studies.....	9245
tigation.....	17758	Far East regional synoptics con-	
sparking characteristics, research		ference.....	1879
and development, report.....	13575	fields, adaptations to small oscil-	
stably oxidized, measurements of		lations in atmosphere, USSR	
total hemispherical emissivity.....	3926	study.....	3801
submicron particles, production		information for naval aviators.....	3003
methods.....	13525	Leningrad literature, 1957.....	7923
surface roughness values preferred		marine observations, manual.....	9544
for ordnance material, military		meridional profiles, USSR study.....	7903
standard.....	12585	meteorology and hydrology (USSR	
transition complexes, electronic		periodical)—	
structure, theoretical study.....	178	abstracts.....	10831
see also Creep of metals—Ferrous		selected articles.....	6465
metals—Precious metals—also		planetary high frontal zones of nat-	
names of articles manufac-		ural synoptic periods, recur-	
tured from metal—also names		rence.....	1944
of metals.		publications, price list.....	6907
<b>Metalworkers Federation, see Inter-</b>		radar use at air weather station of	
<b>national Metalworkers' Fed-</b>		Civil Air Fleet at Rostov-on-	
<b>eration.</b>		Don, USSR.....	16539
<b>Metalworking Equipment Division:</b>		records documentation.....	4123, 9548, 10636, 15245-246, 17160-161
current programs and activities		regime of Antarctic oases and their	
(address).....	4343	effect on surrounding ice sur-	
heating equipment activities (ad-		face, USSR study.....	1887
dress).....	7172	stratospheric, contributions.....	1354
<b>Metalworking machinery:</b>		study of Soviet meteorology in	
facts for industry.....	2372, 5698, 10903	Japan.....	1898
Federal item identification guides		synoptic—	
for supply cataloging.....	4759, 6083	CAPPI technique of radar presen-	
<b>Metamorphosis, larval development of</b>		tation in diagnosis and re-	
<b>10-pounder Elops saurus.....</b>	12685	search.....	9622
<b>Meteorites, pitting caused by fluid-</b>		USSR manuals, observations on	
<b>dynamic mechanism of bound</b>		contents.....	7906
<b>vortices.....</b>	17077	USSR.....	
<b>Meteorological aids, see Meteor-</b>		bibliography.....	845
<b>ologists.</b>		literature, 1956.....	14843
<b>Meteorological apparatus and instru-</b>		literature, 1957.....	1884, 1948, 7907
<b>ments:</b>		reference journals.....	14852
meteor activity recording, protec-		scientific work.....	14850
tion from pulse noise in appa-		variations of elements in atmos-	
ratus, USSR study.....	5139	phere, statistical relations,	
		USSR studies.....	1883



# JANUARY-DECEMBER

	Entry
<b>Meteorology—Continued</b>	
work in Communist China.....	9226
<i>see also</i> Hydrometeorology—Weather—Winds.	
<b>Meteors:</b>	
Soviet-bloc IGY studies, literature translations.....	7913
trains.....	17078
<b>Meters, <i>see</i> names and types of meters, or substances, etc., measured.</b>	
<b>Methane gas, exploitation in Rumania.....</b>	<b>1936</b>
<b>Methionine, radioactive S-35, incorporation in proteins of BK-8 blood substitute in vitro, UkSSR study.....</b>	<b>5142</b>
<b>Methodology, <i>see</i> subjects.</b>	
Methoxychlor, protective treatment for shelled corn stored in metal bins in Southeast.....	13735
Metopline, <i>see</i> Files.	
Metropolitan areas, <i>see</i> Cities and towns.	
Metropolitan Police Department, <i>see</i> Police.	
Metropolitan Problems and Urban Development Commission:	
establish.....	
hearings.....	12289
minority views.....	14288
report.....	14288
Metropolitan Problems Commission:	
establish.....	
hearings.....	14561
report.....	16122
Metropolitan statistical program for National Capital region.....	1572
Mexican bean beetles, <i>see</i> Beetles.	
Mexican border to Point Arguello, Calif., light list.....	4402
<b>Mexico:</b>	
agricultural workers agreement.....	17867
air transport services, agreement.....	15217
broadcasting agreement, interim report.....	16200
Cordoba Island inspection stations agreement.....	17116
economic developments, 1958.....	7787
economy, basic data.....	6220
farm labor program, report of operations.....	16263
import tariff system.....	4881
parliamentary conferences, U.S. participation, report.....	14251
radio broadcasting agreement, hearing.....	12536
radio communications, agreement.....	17124
surplus agricultural commodities agreement.....	2156, 6962
technical cooperation agreement.....	17864
west coast, sailing directions.....	14772
winter vegetable production, survey.....	444
<b>Mexico, Gulf of:</b>	
aircraft accident.....	13870
Alaska cruises, physical and chemical observations.....	6193
bait shrimp industry.....	10133
double-rig shrimp trawling.....	434
exploratory long-line fishing for tuna, 1954-57.....	12681
Mississippi River outlet, general information.....	6105
plankton investigations, 1951-53.....	6196
proximate composition of industrial fish.....	16375
sandhills, preparing for planting pines.....	498
western basin—	
surface water quality.....	4931, 14759
surface water supply.....	14764
yellowfin tuna, canned, color and quality.....	431
<b>Mezoleic era, lead-alpha ages of batholiths of western North America.....</b>	<b>511</b>

	Entry
<b>Miami, Fla:</b>	
aircraft accidents.....	3194, 17291
harbor improvement, engineer report.....	
departmental edition.....	383
document edition.....	325
<b>Mica:</b>	
block and film, fabricated—	
first-half of 1958.....	936
last half of 1958.....	13346
fluorophlogopite, thermodynamic properties.....	6661
minerals yearbook chapter.....	17681
production, etc., in 1958.....	15014
preliminary report.....	2005
synthetic materials as substitutes, Mines Bureau research program.....	15014
<b>Mice, control with anticoagulant baits.....</b>	<b>7761</b>
<b>Micelles, distribution of acetic acid between solvent and soap micelles in benzene solutions.....</b>	<b>5342</b>
<b>Michigan:</b>	
bridge across St. Marys River, construction, extend time—	
hearings.....	16198
law.....	15678
reports.....	14224, 16166
views.....	16166
census of governments, 1957, State bulletin.....	13837
climate.....	17158
climatological data.....	2993, 11546
commercial forests, net timber volume by species group and county.....	3568
electric rate book.....	14632
forest land by forest type.....	3567
Indians on Federal reservations, general information, digest.....	13563
land, convey to, report.....	12241
mineral industry, minerals yearbook chapter.....	3847, 17691
northern lower, forest plantations, 1957.....	3571
peaches, costs of packing, 1957.....	3064
precipitation data, hourly.....	2096, 11549
red pine and oak stands, soil moisture depletion variations.....	14730
upper—	
hardwood, heavy thinning increases tree size and yield.....	14726
sugar maple and yellow birch seed dispersal from mature hardwoods.....	14727
<b>Michigan, Lake:</b>	
water diversion increase, study effect—	
hearings.....	7483, 16226
reports.....	4620, 5839, 14520
views.....	4620, 5839, 14520
<b>Micro determination of carbon and hydrogen in organic compounds.....</b>	<b>13526</b>
<b>Microbes, <i>see</i> Micro-organisms.</b>	
<b>Microbiology:</b>	
agricultural, development tasks during 1959-65, USSR plans.....	12980
application of isotopes, conference transactions.....	7137
careers in research, examination announcement.....	15522
fermentation industry, new tasks, USSR study.....	18246
fungi, chemical activity and tasks of utilizing them in national economy, USSR study.....	12983
general and soil.....	5033
medical, teaching to bring closer to requirements of life, USSR study.....	17566
methods for study of body's reactivity in radiation afflictions, USSR study.....	13257

# INDEX, 1959

Entry	Entry
Microbiology—Continued	Middletown, Pa., township, population, special census----- 210
nutritive and fermentative, research tasks in immediate future, USSR plans----- 12981	Midges, <i>see</i> Flies.
prospects and role in fulfillment of vast national economic tasks, USSR plans----- 13247	Midshipmen, <i>see</i> Naval Academy, Annapolis.
prospects for development 1959-65 in Ukr SSR----- 12979	Mid-State project, Federal cooperation, hearings----- 14340
radiation, tasks in connection with plan for development of national economy of USSR, 1959-65----- 10388	Midway Islands:
Soviet abstracts----- 5046, 6463, 6515, 6566, 13033, 13049, 13088-89, 13139, 13193, 17598, 13096,	birds and aircraft, investigations, 1957-58----- 14677
USSR congress, summary----- 616	national atlas sheet, topographic mapping status----- 14752
Microcide, purified, experimental effect on fixed rabies and smallpox viruses, Ukrainian SSR studies----- 3799	Midyear review MR series----- 9685-98, 11767, 13824-826
Microfilms, newspapers, list, supplement----- 16677	Mie scattering, <i>see</i> Scattering.
Microflora, <i>see</i> Bacteria and bacteriology.	Migrant labor:
Microlepidoptera, and their parasites reared from field collections in northeastern U.S.----- 3073	Dade County, Fla., housing survey, farm----- 5164
Micronesia, polyclad flatworms, further study----- 5327	challenge and progress (address)----- 9279
Micro-organisms:	living standards, improvement, accomplishments, etc. (address)----- 9271
acylases, effect of antibiotics, USSR study----- 16541	New York State, changes 1953, 1957, and 1959----- 15283
biochemistry, problems and prospects for development in USSR, chemical control in dehydrated vegetables----- 4036	recruitment, authority of Sec. of Labor to establish referral standards, opinion of Attorney General----- 16637
detection in air, new device, Ukrainian SSR----- 3800	technological changes and need (statement)----- 7040
genetics and present-day views on heredity, USSR study----- 14953	Mexican farm labor program, report of operations----- 16263
heredity and variability, role of nucleic acids, USSR study----- 6485	migratory labor notes----- 2730
in service of imperialism----- 7957	personal rights guarantee (address)----- 5159
usefulness for type reactions in fermentation chemistry----- 7038	State migratory labor committees, organization, programs, etc.----- 5166
Microphones, headset kit, operation and organizational maintenance, technical manual----- 17246	Migrant workers, <i>see</i> Migrant labor.
Microscopy:	Migration:
luminescent-----	farm to nonfarm employment (address)----- 17188
blood in X-ray irradiation, USSR study----- 13253	fish, American shad of Atlantic Coast----- 3499
bone marrow in action of radio-mimetic substances, USSR study----- 13255	migratory labor notes----- 11267
importance in study of bone marrow in radiation reaction, USSR study----- 13254	Migration of workers, <i>see</i> Migrant labor.
<i>see also</i> Electron microscopy.	Migratory bird hunting stamps, act of Mar. 16, 1934, amend, hearings----- 315
Microseisms:	Migratory birds, <i>see</i> Birds—Game and game birds—Water birds.
correlations between microseisms and earthquakes, evidence----- 5345	Migratory workers, <i>see</i> Migrant labor.
microseismic program of U.S. Navy, terminal report----- 9742	Mildeus, downy mildew on lima beans----- 8298
Microwaves:	Mileage, <i>see</i> Travel.
electromagnetic, clinical picture of chronic effect, USSR studies----- 3724	Miles, Virginia, relief----- 14165
ferrites-----	Millos, Irene, relief----- 12373, 13971, 14151
applications to systems----- 13532	Military Academy, West Point:
properties, effects of nuclear irradiation----- 13516	official register, 1958----- 3837
polarimeter technique, description----- 2087	Thailand citizens, instruction—law----- 14037
Middle Atlantic States, <i>see</i> Atlantic States.	reports----- 12239, 12447
Middle East, <i>see</i> East (Middle East).	Military Academy Preparatory School, Fort Belvoir, catalogue----- 914
Middle Loup River, sediment transportation at Dunning, Nebr.----- 9128	Military Affiliate Radio System, organization and operation, Air Force manual----- 8357
Middle River, drainage basin of Shenandoah Valley, sedimentary studies----- 6295	Military aid:
Middle River, Md., railroad accident----- 9151	agreement with—
Middletown, Conn., pegmatites of area----- 1709	Belgium----- 17126
	Canada----- 15219
	Denmark----- 10605
	France----- 15216
	Greece----- 17121
	Iraq, termination agreement----- 17119
	Japan----- 6957, 17863
	Luxembourg----- 13616
	Norway----- 17870
	United Kingdom----- 6959, 15215
	Yugoslavia----- 17860
	defense credit sales agreement with NATO Maintenance Supply System----- 13629

# JANUARY-DECEMBER

	Entry
<b>Military aid—Continued</b>	
Middle East nations, 3d report.....	1528
military assistance program organization and administration, 2d interim report.....	10357
departmental edition.....	9809
document edition.....	17099
mutual aid under North Atlantic Treaty, agreement with Germany.....	17099
mutual defense assistance, development, etc.—	
study, print as document, report.....	8629
study, text.....	8541
mutual defense offshore procurement program—	
agreement with Spain.....	8248
transfer of special tools, agreement with France.....	8235
mutual security act of 1959—	
hearings.....	10040-41
law.....	11995
reports.....	9834, 9844, 9904, 12193
views.....	9834, 9904
mutual security appropriations, 1960—	
hearings.....	12274, 16188
law.....	15747
reports.....	12208, 15930-931, 16167
mutual security program—	
appropriations, 1960, proposal, continuation, message from the President.....	9810
development and implementation review—	
hearings.....	3322, 4651
report.....	4650
draft legislation, hearings.....	7465, 8733
index.....	8733
preliminary conclusions of study committee—	
departmental edition.....	6899
document edition.....	5943
report by Citizens Foreign Aid Committee and comments supplied by Departments of State, etc.....	7466
reports, semiannual—	
departmental editions.....	3624, 17856
document editions.....	3274, 17232A
summary presentation, 1960.....	6328
under mutual security act, investigation, authorization, report.....	3300
mutual security program study—	
composite report.....	15153
composite report, supplement—	
annexes.....	15153
text.....	14116
conclusions.....	14115, 15156
United States program and operations in Laos—	
hearings.....	12294
report.....	9851
<b>Military Air Transport Service:</b>	
investigation, report.....	15939
MATS flyer (periodical).....	2302, 10754
operation, etc., investigation, committee recommendations, executive action—	
hearings.....	9910
report.....	15871
<b>Military Appeals Court, see Court of Military Appeals.</b>	
<b>Military art and science:</b>	
aerial photographs utilization in troop units, USSR studies.....	5023
developments in Albania.....	5000
drill and ceremonies, field manual.....	1366
International Geophysical Year from military point of view.....	5026
logistical support of armies, European theater, World War II.....	17673

	Entry
<b>Military art and science—Continued</b>	
logistics, Air Force manuals.....	1349, 5589
mountain operations, tactical principles, Army field manual.....	3136
Naval combat operations, planning, work of atomic biological, and chemical warfare officers, Yugoslavia, opinion.....	1863
Soviet translations.....	10238, 12845, 12858, 14813, 14820, 16534, 17547
tank company in attack, USSR study.....	16630
<i>see also</i> Combat.	
Military assistance, <i>see</i> Military aid.	
Military Assistance Institute: contracting out Government responsibility, report.....	12186
Government responsibility investigation, hearings.....	8746
Military Assistance Program, President's Committee to Study, <i>see</i> President's Committee to Study Military Assistance Program.	
Military aviation, <i>see</i> Aeronautics.	
Military bases, Europe, report on inspection.....	15940
Military construction, <i>see</i> Installations (military).	
Military depots, operations, manual.....	6881
Military drill, field manual.....	1366
Military education:	
AFROTC student officers light plane training, evaluation.....	11685
Air Force training standard, manuals.....	4210-11, 5571
Army schools, etc., catalog changes.....	160-161, 1368-69, 3140-42, 4290-93, 5618-20, 11699-702, 13781, 15373-383.
Army service schools, schedule of classes, NGB pamphlet.....	10507
C-E publications and training, Air Force manual.....	8355
Marine Corps flight training.....	9332
Military Academy Preparatory School, catalogue.....	914
Naval Training Device Center guide to training devices and aids, revised pages.....	10543, 16997
political geography, implications, AFROTC textbook.....	13751
Soviet translations.....	12858, 14813, 14820, 16534, 17547
tank company in attack, USSR study.....	16630
training of foreign personnel in U.S. service schools, guide for visiting students.....	17369
<i>see also</i> Officers candidate schools.	
Military engineering drawings, preparation of associated lists, military standard.....	12580
Military equipment, <i>see</i> Military supplies.	
Military handbooks.....	354-355
Military history, American, 1607-1958, ROTC manual.....	15391
<i>see also</i> Military policy.	
Military hospitals:	
Army and Air Force, medical facilities, electrical requirements.....	8959
construction standards and criteria, engineering and design manual.....	12613
Military housing, <i>see</i> Housing.	
Military housing insurance, <i>see</i> Mortgage insurance.	
Military index:	
specifications—	
Air Force Dept., supps.....	2301, 10753
Navy Department, supps.....	2959, 11507

# INDEX, 1959

Entry		Entry	
Military index—Continued		Military planning, <i>see</i> Military art and science.	
specifications and standards—		Military police, prediction of success in courses—	2
Army Department—	4284, 11695	Military policy, United States, background—	9632
Army Department, supplements—	2322, 10768	Military ports, site selection, planning and design, EM manual—	1603
Navy Department—	6069, 17129	Military prisoners, Air Force confinement facilities, operation, AF manual—	1342
Military information:		Military psychiatry, <i>see</i> Psychiatry.	
Albania—		Military public works, <i>see</i> Installations (military).	
developments—	12808, 12846	Military publications:	
reports—	12861, 14823, 17545	Air Force manual—	121
Army pamphlet—	4295	Army field and technical manuals, price list—	9458
atomic energy, cooperation for mutual defense purposes agreement with United Kingdom, etc., hearings—	12026	Polish review—	676, 678, 712, 733, 5067
Chinese, articles—	10343	Military qualified products, <i>see</i> Military supplies.	
safeguarding, Ordnance Corps manual—	15145	Military records:	
Military installations, <i>see</i> Installations (military).		airmen personnel records system, Air Force manual—	7081
Military intelligence:		discharge, correction, consider good conduct in civilian life, report—	8652
career opportunities for research work, examination announcement—	3215	evaluation and disposition, Air Force manual—	138, 5588
PACAF basic bibliographies—	9636	Military research:	
research work opportunities, examination announcement—	8480	basic research in Air Force—	4259
correction—	8485	research and development, military representatives testimony, hearings—	310
suspension notice—	8485	Military reservations, wildlife, fish, and game conservation, planning, etc., report—	12246
Military justice, <i>see</i> Military law.		Military review (periodical)—	2416, 10947
Military law:		Military schools, <i>see</i> Military education.	
careers in Air Force—	16635	Military Sea Transportation Service, history, organization, services, etc.—	16683
legal research guide, Air Force manual—	15347	Military security:	
military justice guide, Air Force manual—	5584	and foreign relations, standard operating procedures of Corps of Engineers, Army manual—	8955
military justice handbook, trial counsel and defense counsel—	5621	physical, field manual—	5618
PACAF basic bibliographies—	5600	physical security standards, Ordnance Corps manual—	2098
review, Army Dept. pamphlet—	10769	<i>see also</i> Military aid.	
Military leadership, field manual—	3135	Military service:	
Military medical journal (USSR periodical):		universal military training and service act induction provisions, extend—	
articles—	1816, 1846, 3741, 5040, 6433, 9220, 9287, 10340, 13136	hearings—	3318, 4735
Military missions:		law—	5778
agreement with—		reports—	8313, 4546, 4729
Bolivia—	9516	Military specifications—	356, 1582, 3408, 4763, 6087, 7659, 8924, 10059, 12578, 14587, 16240, 17370.
Brazil—	4086	Military standards—	357-359, 1583-88, 3409, 4763-69, 6088-89, 7660-61, 8925-27, 10060-67, 12579-585, 14588, 16241-248, 17371.
Colombia—	9517	<i>see also</i> Standards and standardization.	
Ecuador—	15206	Military supplies:	
Haiti—	4096, 8249	active standardization projects, standards, specifications, studies and handbooks—	4755
Nicaragua—	17123	Air Force commanders supply management handbook—	15351
Paraguay—	10601	Air Force manuals, supply and/or maintenance—	132, 1335-37, 3093-96, 4212-15, 5572-77, 7084-91, 8351-54, 9627, 11665-667, 13744-746, 15337-348, 17215-218.
Military occupational specialties:		Air Force procurement and activity numbers, AF manual—	5580
enlisted MOS proficiency test aid—			
air defense artillery automatic weapons crewman—	4288		
air defense artillery operations and intelligence assistant—	4285, 17242		
air defense missile crewman—	7128		
armor communications specialist—	3139		
artillery communications—	11698		
automotive repairman—	159		
bridge specialist—	11696		
combat engineer—	3138		
field artillery operations and intelligence assistant—	4286		
flash ranging crewman—	4287		
radar repairman—	11697		
sound ranging crewman—	1367		
Military occupations, Navy's limited duty officers qualifications manual—	5339		
Military operations, <i>see</i> Military art and science.			
Military parks, <i>see</i> names of parks.			
Military pay, <i>see</i> Pay, allowances, etc.			
Military personnel, <i>see</i> Air Force—Armed Forces—Army.			



	Entry
<b>Military supplies—Continued</b>	
Air Force procurement instructions.....	2291, 10743
armed services procurement act, negotiated contracts, study, report.....	14331
armed services procurement regulations.....	16284, 17367
appendices.....	6081-82
revisions.....	1579-80, 3404, 4757, 7655, 8916, 10068, 12576, 16235
study, hearings.....	1544
Army procurement procedure.....	158, 3133-34, 4283, 7127
cargo handling containers, sizes and configurations factors affecting design for packaging and protection of materiel, interim report.....	5445
cataloging system, standardization, etc., hearing.....	1542
climatic extremes for equipment, military standard.....	10063
data for ground support equipment for weapon systems.....	1359
defense credit sales, agreement with NATO Maintenance Supply Services System.....	13629
defense subcontracting, small business participation—	
hearings.....	10057
report.....	14496
definitions of interchangeable, substitute, or replacement items, military standard.....	16248
equipment loan to Boy Scouts of America—	
laws.....	7310-11
reports.....	5860-61, 7557-58
Federal catalog system, history, organization, etc.....	16238
furnishing to foreign naval vessels and aircraft—	
hearing.....	12525
law.....	11956
reports.....	4586, 8818
inspection by attributes, sampling procedures, etc.....	1581, 14586
inspection by variable for percent defective, sampling procedures and tables, mathematical and statistical principles underlying military standard 414.....	3407
management, single manager plan—	
hearings.....	12290
report.....	12172
manufacturers, register of planned emergency producers.....	17366
military standards, list.....	2305, 10756
National Guard regulations.....	8100
Navy procurement directives.....	15142
offshore procurement program—	
agreement with Spain.....	8248
transfer of special tools, agreement with France.....	8235
ordnance materiel, surface roughness values preferred, military standard.....	12585
packaging, joint military outlines.....	13533
procurement amendments of 1959, hearings.....	16192
procurement competition requirements, hearings.....	16192
provisioning technical documentation seminars.....	4761
qualified products list, standardization manual.....	12588
Quartermaster Corps coordinated purchase descriptions.....	6919
quartermaster items, cocooned enclosures for storage.....	10573

	Entry
<b>Military supplies—Continued</b>	
sale, agreement with—	
Panama.....	13617
Yugoslavia.....	17861
specifications.....	7659, 8924, 10059, 12578, 14587, 16240, 17370
Air Force Dept., military index, supps.....	2301, 10753
Army Department, military index.....	4204, 11695
supplements.....	2322, 10768
Chemical Corps index.....	8464
military specifications.....	356, 1582, 3408, 4763, 6087
Navy Department military index.....	6969, 17129
standardization, military manual.....	4770
used by Navy Dept., index, supps.....	2959, 11507
standardization project report, standards, specifications, studies, and handbooks.....	11023
standards, list.....	17222
storage, use of strippable film container for long-term process, standardization study.....	8163
storage depots, engineering and design manual.....	16265
United States Army in World War II, procurement and distribution of supplies in their organizational and operative aspects.....	6644
weight-handling equipment at naval shore activities.....	13672
Military terms, glossary of standardized terms, Air Force manual.....	3057
Military training, see Military education.	
<b>Milk:</b>	
bulk, cooling tanks on farms of producers marketing in Federal order markets, survey.....	11564
classification experience in Federal order markets.....	3063
clean milk production.....	3056
concentrate, effect on New England dairy industry (address).....	4150
consumption in nation's schools, study.....	104
consumption in nonprofit summer camps.....	8325
cooler, how to make it heat water.....	9587
co-op role in Federal orders.....	16280
cooperatives, group bargaining, exempt from antitrust laws, report.....	7546
definitions and standards.....	436
distribution incipient monopoly, case study—	
report.....	6069
report, additional copies, reports.....	12512, 14278
distributors' sales and costs.....	2214, 10669
evaporated, condensed, and dry.....	2201, 10658
evaporated and condensed, held by wholesale grocers.....	2239, 10693
farm production, disposition and income, 1957-58.....	5498
Federal and State standards.....	15300
Federal orders—	
market sources by State and county.....	1252
market statistics, 1947-50.....	8338
marketing, questions and answers.....	11562
pricing problem (talk).....	11534
responsibilities of farmer co-operatives, etc. (talk).....	4147
filled, prohibit export under public law 480, 83d Cong., of dairy products for manufacture, hearing.....	14825

# INDEX, 1959

	Entry		Entry
Milk—Continued		Mine roofs, bituminous coal, cemen-	
fluid—		tation of roof strata by injection of resins—	3575
household purchases—		Mine safety, <i>see</i> Safety of life.	
monthly—	2208	Mine timbers:	
quarterly—	2209	production, effect of use of substitutes, Lake States—	17463
monthly reports—	2242, 10696	roof-fall fatalities in anthracite and bituminous coal mines 1955 and 1956—	926
plants in Southeast, methods, equipment and layout—	99	Mine ventilation, airflow changes in multiple-fan systems, hazards, etc.—	6652
pricing, role of Governments—	17167	Minemen (ordnance):	
fresh, marketing costs and margins	4186	Navy training course—	6848
geographic structure of prices, 1957-58—	15251	Mineral engineering:	
grade A marketing by manufacturing co-ops—	10090	adaptation of new research techniques to problems—	3165
nonfat dry—		progress report—	15411
household purchases—		Mineral fuels, <i>see</i> Fuel.	
monthly—	2208	Mineral industries, <i>see</i> Minerals.	
quarterly—	2209	Mineral lands:	
resistance of drums and barrels to insect invasion—	4185	Alaska—	
plants processing dry milk, insect prevention and control—	7007	coal mining leases, increase acreage limitation—	
processing industry, waste guide—	17044	law—	
production—	3026	reports—	15628
farms, 1958—	4146	leasing, increase acreage limitations—	14309
monthly reports—	2249, 4145, 7024, 9584, 10701, 11582	hearing—	12541
Soviet Union, recent developments—	9062	reports—	12197, 12477
school milk, special program—		veto—	14114
extend, hearings—	7439, 12266	oil and gas deposits in lands beneath inland navigable waters, lease, hearings—	3388
increase appropriation—		subject to lease, etc., selection, amend statehood law—	
hearings—	7439, 12266	hearing—	12541
laws—	5784, 14018	law—	14028
reports—	5871, 6012, 6041, 12187	reports—	12220, 12486
seasonal pricing plans, study—	396	Anderson, Oconee, and Picketts Counties, S.C., conveyance of rights to Clemson Agricultural College, report—	12195
Milk plants, <i>see</i> Milk.		Crow Reservation, grant minerals to certain Indians—	
Milkie, Nassibeh M., relief—	8780, 14141	law—	15648
Millard County, Utah, eastern, soil survey report—	15192	reports—	14440, 15836
Millbrae, Calif., population, special census—	15468	leases, protection from cancellation, etc.—	
Millepede, revision of genus brachioria—	6817	law—	15659
Miller, Joseph E., relief—	4495	reports—	15849, 15916, 16069
Miller act, <i>see</i> Government contracts.		leases, validate, extend, etc., report—	12475
Mills, <i>see</i> Cotton Mills—Cottonseed oil mills—Flour mills—Planing mills—Rolling mills—Sawmills—Veneer mills.		leasing act—	
Milne, Cecil P., nomination, hearings.	7606	amend rel. to acreage exemptions, hearings—	14564
Milwaukee, Wis.:		amend to increase leasing term, hearings—	14564
electric facilities of area, map—	16336	amend to increase rental, etc., hearings—	14564
occupational wage survey—		amendments of 1959, hearings—	14564
departmental edition—	13283	quitclaim oil and gas rights to Alaskan homesteaders, hearing—	16208
document edition—	12033	reserved interests of U.S. in Clemson lands, permit sale—	
Minas Gerais, Brazil, metals industries, material handling, plant layout and methods—	10201	law—	14009
Mindanao Islands, north, and northeast coasts, sailing directions—	17499	report—	12443
Mine accidents:		Mineral oils, <i>see</i> Oils.	
coal fields, falls of roof fatalities in bituminous-coal mines—	13312	Mineralogy, airborne reconnaissance project, Ruby Range and Sweetwater Basin, Mont.—	15415
coal mines—		Minerals:	
anthracite and bituminous, roof-fall fatalities 1955 and 1956—	926	accessory, of igneous rocks, lead-alpha age determinations, 1953-57—	17489
fatalities at Pennsylvania anthracite mines, 1958—	8026	Alabama industry, minerals year-book chapters—	927, 17682
injuries, monthly reports—	2796, 11340	Alaska industry, minerals year-book chapter—	1987
injury experience, 1953-54, analysis—	919	Altay, USSR, polymetallic mineralization—	647
open-pit iron-ore mines, beneficiation plants, and shops, Lake Superior district—	8032	Arizona industry, minerals year-book chapters—	1988, 16706
Mine explosions:		Arkansas industry, minerals year-book chapter—	928
coal-mine explosions in United States, historical summary—	3842		
determining explosibility of mine atmospheres—	9338		
Mine fires, western United States, control in inactive coal deposits—	16701		

Minerals—Continued	Entry
associated with fluorite, faulting and deposits at mines and prospects, description	6282
California industry, minerals yearbook chapter	3843
Chinese People's Republic, geological-prospecting survey, achievements	17640
coal, determination by acid-extraction method	8052
Colorado industry, minerals yearbook chapter	3844
Connecticut industry, minerals yearbook chapter	15004
contributions to geochemical prospecting for minerals (series)	506
defense exploration assistance, Attorney General's report	1567
Delaware industry, minerals yearbook chapter	15005
deposits, principles of appraising, USSR	7948
depressed industries affecting public and other land—	
established national policy—	
report	16157
views	16157
expressing sense of Congress—	
hearings	12295
reports	12204, 14290, 16158
views	16158
discovery, exploration, and development, hearings	3330
explorations, remove limitation on deduction of expenditures, report	15841
extractive industries, work-injuries and employment data	915
fertilizers, herbicides, and insecticides, plans to increase in USSR for agriculture	14865
Florida industry, minerals yearbook chapters	1989, 17684
foreign trade in U.S.S.R. in 1957	2010
Georgia industry, minerals yearbook chapters	929, 17685
Hawaii and Pacific-Island possessions, minerals yearbook chapter	16707
Idaho industry, minerals yearbook chapters	930, 17686
Illinois industry, minerals yearbook chapters	3845, 17687
Indiana industry, minerals yearbook chapter	1990
industries—	
area reports, annual	2790, 11334
employment and injuries, minerals yearbook chapter	17675
Iowa industry, minerals yearbook chapters	1991, 17688
Kansas industry, minerals yearbook chapter	1992
Kentucky industry, minerals yearbook chapters	1993, 17689
Louisiana industry, minerals yearbook chapter	1994
Maine industry, minerals yearbook chapter	17690
Maryland industry, minerals yearbook chapter	3846
Massachusetts industry, minerals yearbook chapter	16708
metallic, occurrences in USSR	654
Michigan industry, minerals yearbook chapters	3847, 17691
mineral market reports	934-939, 3857-69, 5189-5200, 6853-59, 8035-45, 9339-50, 10433-431, 13325-360, 15009-24, 16710-715, 17703-704
I.S.P. (series)	2817
M.M.S. (series)	1999-2009, 2820
mineral trade notes	2785, 11329
special supplements	2010, 10452

Minerals—Continued	Entry
Minnesota industry, minerals yearbook chapter	17692
Mississippi industry, minerals yearbook chapter	17693
Missouri industry, minerals yearbook chapters	1995, 3848, 17694
Montana industry, minerals yearbook chapter	3848
national policy, establishing—	
report	16157
views	16157
expressing sense of Congress—	
report	16158
views	16158
needs of dairy cattle	7036
Nevada industry, minerals yearbook chapters	931, 17695
New Hampshire industry, minerals yearbook chapter	15006
New Jersey industry, minerals yearbook chapters	932, 17696
New Mexico industry, minerals yearbook chapters	933, 17697
New York State, deposits and occurrences	16459
nonmetallic, structural prices and price index, 1957	901
North Carolina industry, minerals yearbook chapter	17698
North Dakota industry, minerals yearbook chapter	17699
Ohio industry, minerals yearbook chapter	3849
Oklahoma industry, minerals yearbook chapter	3850
Oregon industry, minerals yearbook chapter	17700
Pennsylvania industry, minerals yearbook chapter	3851
production, statistical summary, minerals yearbook chapter	17716
publications, price list	15163
Puerto Rico, Panama Canal Zone and Virgin Islands industry, minerals yearbook chapter	17683
rare earth, production, etc., 1958	10442
resources—	
Alaska (series)	3598, 4925-26, 16458, 17486
bibliography, contributions (series)	4921, 10188
code of Federal regulations	9001
development, role of Mines Bureau (address)	10460
Paraguay	7855
Rhode Island industry, minerals yearbook chapter	15007
soil, effect on susceptibility to frost	3427
South Carolina industry, minerals yearbook chapter	16709
South Dakota industry, minerals yearbook chapters	1996, 17701
structures of ore fields and deposits in USSR	6426
Tennessee industry, minerals yearbook chapter	1997
Texas industry, minerals yearbook chapter	3852
trace minerals ample on woods range	500
treatment processes for percentage depletion purposes—	
hearings	7493
hearings, additional copies, report	7372
Turkey industry, information circular	916
uranium-bearing deposits in Boulder batholith, Mont., mineralogy	8400
uranium-bearing shales, mineralogy investigation	4319
Utah industry, minerals yearbook chapter	3853

# INDEX, 1959

	Entry
<b>Minerals—Continued</b>	
Vermont industry, minerals year- book chapter.....	15008
Virginia industry, minerals year- book chapter.....	3854
Washington State industry, min- erals yearbook chapters, 1998.....	17702
West Virginia industry, minerals yearbook chapter.....	3855
world production, 1958.....	17704
Wyoming industry, minerals year- book chapter.....	3856
yearbook, 1957, area reports— departmental edition.....	5202
document edition.....	4442
yearbook, 1957, fuels— departmental edition.....	5201
document edition.....	4441
yearbook, 1957, metals and minerals except fuels— departmental edition.....	940
document edition.....	303
see also Radioactive substances— also names of minerals.	
Minerals Exploration Office, releases.....	11326
Miners, see Coal mines and mining.	
Mines and mining:	
automation in mine ore industry, USSR.....	656
block caving, methods and costs, Bagdad mine.....	8030
depressed industries affecting public and other land— establish national policy— report.....	16157
views.....	16157
expressing sense of Congress— hearings.....	12295
reports.....	12204, 14290, 16158
views.....	16158
domestic mine production of cop- per, lead, etc., stabilizing, hearings.....	3830
equipment, respiratory protective devices approved by Mines Bu- reau.....	8029
hydraulic mining of coal, new equip- ment, USSR.....	553
laws, amend, report.....	16129
methods and costs— Berkeley pits, Anaconda Com- pany, Butte, Mont.....	6651
Holden Mine, Howe Sound Co., Chelan County, Wash.....	1984
Indian Creek Mine, St. Joseph Lead Co., Washington County, Mo.....	6646
Piquette Mining and Milling Co. mine products, carload waybill sta- tistics, 1958.....	12793, 17510
mineral treatment processes for per- centage depletion purposes— hearings.....	7493
hearings, additional copies, re- port.....	7372
mines products, carload waybill sta- tistics, 1957.....	6334
oil-shale mine, Rifle, Colo., design factors.....	944
placer claims, include nonmineral lands in patents, report.....	16129
publications, price list.....	15163
review of mining technology, min- erals yearbook chapter.....	6675
USSR, economic appraisal, prin- ciples.....	7948
see also Coal mines and mining— Metal mines and mining—Mine accidents—Mine explosions— also Mine fires—names of metals and minerals mines— also names of mines.	
Mines Bureau:	
area reports, annual.....	2790, 11334

	Entry
<b>Mines Bureau—Continued</b>	
bulletins.....	1982-83, 3838, 5185, 9334-35, 14989
information circulars.....	916-926, 1984-86, 3840-42, 5186-88, 6646-52, 8027-34, 9336-38, 10427-429, 13313-322, 14999, 16694-702, 17677.
publications, monthly lists.....	2780, 11330
releases.....	2818, 11362
reports of investigations.....	941-944, 2011- 14, 3871-76, 5203-9, 6661-74, 8046-53, 9351-55, 10453-459, 13362-376, 15035-36, 16719-732, 17706-713.
research and technologic work on coal, etc.— report, 1956.....	13318
report, 1957.....	13319
research programs— abrasive and hard materials.....	13328
aggregates.....	15022
asbestos.....	15018
bauxite and aluminum.....	13345
boron.....	15009
columbium and tantalum.....	13329
copper.....	13344
development of super refrac- tories.....	16711
fluorine.....	15017
iron ore resources.....	13340
lead and zinc.....	15016
manganese.....	13347
mercury.....	13327
nonrefractory clay.....	15015
phosphate-rock.....	13333
rare-earth metals.....	13330
silica resources of Pacific North- west.....	15022
steel.....	13341
substitutes for mica.....	15014
tellurium.....	13326
titanium.....	13331
uranium and thorium.....	13325
zirconium and hafnium.....	13324
role in 1979 (address).....	10460
safety competition awards, National Lime Association.....	16693
safety competitions, sand and gravel plant awards.....	14997
Miniature atomic batteries.....	13760
Minimum wage, see Wages.	
Mining machinery:	
Federal supply schedule.....	14651
industry, outlook for 1959 and re- view of 1958.....	1424
USSR textbook exploitation.....	1785
Mining Research Institute, Hungary, operation of petroleum depart- ment.....	618
Ministers of religion, see Clergy.	
Ministry of Higher Education:	
USSR, institutes of higher learning, news— geodesy and aerial photography, abstracts.....	10845
mathematics, abstracts.....	8440, 10846
physics, abstracts.....	10844
Minitrack:	
data for artificial earth satellites, 1958 alpha and 1958 beta.....	2084
radio system for tracking artificial satellites— description of receiver.....	2088
part of project Vanguard, descrip- tion.....	1130
Minks, skins, trade agreement escape- clause investigation, report.....	17133
Minneapolis, Minn.:	
aircraft accident.....	11820
electric facilities of area, map.....	16337
occupational wage survey— departmental edition.....	7977
document edition.....	7324



# JANUARY-DECEMBER

	Entry		Entry
Minneapolis, Minn.—Continued		Missiles:	
Twin Cities Arsenal, lease portion to independent school district no. 16—		activities in relation to preparedness program, investigation, hearings	4736
law	15719	air defense, briefing, hearing	15907
reports	12242, 14537	Air Force information availability to GAO—	
wood use by manufacturing firms	17460	hearings	1547
Minneapolis, St. Paul & Sault Ste. Marie RR., accident	1737	report	5873
Minnesota:		views	5873
census of governments, 1957, State bulletin	13838	airframe with control surfaces consisting of projecting quadrants of nose cone	6686
climatological data	2993, 11546	Atlas and Polaris, progress—	
durum wheat allotments, increase—		hearings	14352
hearings	6043, 7438	report	15922
report	12445	ballistic—	
electric rate book	7709	aerodynamic characteristics, investigation	16748
flaxseed storage at country elevators	13732	atmospheric entry, simulation	16763
grade A milk marketing by manufacturing co-ops	10090	entering earth's surface at high supersonic speeds, study of motion and aerodynamic heating	6682
Indians on Federal reservations, general information, digest	13563	establish early warning system, agreement with Canada	15212
mineral industry, minerals year-book chapter	17692	long-range, method for simulating atmosphere entry	9360
northern—		normal force, center of pressure, and zero-lift drag	15064
costs of marking black spruce for cutting	3566	balloon operations, contributions to research and development	5595
forests, snow accumulation and melt, management implications	7824	beam-rider guidance system in presence of noise, effect on minimum miss distance	6756
precipitation data, hourly	2996, 11549	blunt bodies at low subsonic speeds, static, oscillatory, and free-body tests	6763
swamp, black spruce, natural regeneration under various cutting systems	17208	boundary layer and force measurements on slender cone-cylinder body of revolution, aerodynamic theory	2027
Minorities:		boundary-layer transition on flat-faced bodies of revolution at high supersonic speeds	16756
Communist China translations from political and sociological publications	17554	canard-type	
minorities research (Chinese periodical), articles	14809	configuration with underslung scoop inlet, characteristics	970
Minors, see Children.		control surface influence on flow field in vicinity of symmetrical fuselage	16768
Mint Bureau, report, 1958	8055	effects of seeker-nose configurations on longitudinal stability	1034
Min-tzu T'uan-chieh (periodical):		low speed, to determine static aerodynamic forces and moments during simulated launching from midseamspan and wing-tip locations	10477
articles	9191, 9219, 9224, 9243, 10342, 12901	configuration with fuselage-mounted rocket boosters and strut-mounted engine, investigation	966
translations	17561	configurations, pitch-damping derivatives as measured in flight at transonic and supersonic speeds	3909
Min-tzu Yen-chin (periodical):		delta-wing, jet control, wind-tunnel investigation at transonic speeds	1040
articles	12888, 14817	development in preparedness program—	
translations	12892, 14804, 14800, 17561	hearings	8755
Minusinsk, USSR, iron ores of region, over-all utilization	1912	hearings, additional copies, report	15905
Minute Man National Historical Park:		reports	9863, 9925
establish—		field, employment outlook	9297
law	15686	five-stage solid-fuel sounding-rocket system performance data	6781
reports	14256, 16105	flicker-type roll control analytical investigating	9374
Miquelon, sailing directions	6307	four boatlaid bodies, load distributions, aerodynamic theory	2033
Miracles, are miracles possible?	12839	four bodies having near-parabolic noses and cylindrical afterbodies, aerodynamic characteristics	2030
USSR study			
Mirrors, parabolic, optimum f number, in non-image-forming optical systems	17810		
see also Magnetic mirrors.			
Miscellaneous bills, see Bills (congressional).			
Miscellaneous collection series, see Smithsonian miscellaneous collections.			
Miscellaneous papers, see names of departments, etc., issuing papers.			
Miscellaneous publications, see names of departments etc., issuing publications.			
Missilemen:			
air defense missile crewman, Nike-Hercules, MOS proficiency test aid	7128		
guided, 3 & 2, Navy training course	2078		

# INDEX, 1959

Missiles—Continued	Entry	Missiles—Continued	Entry
free-falling, variation in range due to atmospheric density variations	3114	oscillatory motion of manned vehicles entering earth's atmosphere, study	6772
free-flight performance of rocket-boosted air-launched 16-inch-diameter ram-jet engine	3887	performance and heating problems, problems of national space program (addresses)	6693
gap between wing and body, aerodynamic effect	15050	program, small business participation, Los Angeles, Calif., hearings	15089
guided—		pull-off from aircraft on arrested landing, safety test for use in development of fuzes, military standard	3333
Air Force equipment technical information file, list, amendment	1360	ram-jet engines, free-flight performance	8927
control and guidance systems nonlinear aerodynamic stability characteristics, application for simplification	6730	rocket—	3890
possibility of simplifying systems by use of free-floating flaps and spring-mounted control surfaces	6691	model investigation of hinge-moments on trailing-edge control on 52.5° swept wing	16858
principles, Navy training text	17799	powered exploratory research, flown to Mach number of 10.4, performance measurements	5253
programs, general procurement information	6085	20,000-kilowatt nuclear turboelectric power supply for manned space vehicles, conceptual design	5290
squadrons, characteristics of volunteers for 6-year duty	4270	rolling moments caused by wing-tail interference at supersonic speeds, estimating	952
United States program	6048	rotating-vane-spoller roll control system with low actuating forces, free-flight performance	16449
homing guidance systems, optimum performance synthesis with statistical inputs	6758	supersonic, controls	16749
horizontal-tail height effect in side-slip on 45° sweptback, untapered tail assembly	16814	taming of blue and beyond, Air Force pamphlet	15349
hypersonic similarity law, applicability to bodies of revolution	3883	telemetry standards, military standard	1585
jet, tail and axisymmetric body, shock-wave interference at Mach 1.9	1005	twin-engine ram-jet, flight and pre-flight evaluation of automatic thrust-coefficient control system	3912
Jupiter, biomedical experiments, hearing	14353	wing-body combinations—	
launching from 25-percent-semispan and wing-tip locations, experimental static aerodynamic forces, etc.	16812	transonic area rule applications to asymmetric configurations	16486
launching from unswept, swept-back, modified delta-wing fuselage combinations at zero sideslip, experimental static aerodynamic forces and moments at high subsonic speeds	10485	transonic, etc., speeds	3913
long range rockets, hypervelocity vehicles, analysis of performance	10466	wingless, simulation study	6690
longitudinal stability, characteristics of infrared homing missile configuration	16829	Mission of Austrian electric power personnel to USSR	13115
low-speed, designed to fly with its longitudinal axis aligned with flight path, study	10471	Mississippi:	
military programs, organization and management—		census of governments, 1957, State bulletin	11787
hearings	7468	Choctaw Indians, history, education, etc.	6317
hearings, additional copies, report	14283	climatological data	2903, 11546
report	14311	farm labor survey	3014
missiles in war and peace, bibliography, Army Dept. pamphlet	17243	farm supply co-ops, inventory management	7697
NACA RM-10, in free flight turbulent and laminar heat transfer measurements	15066	forest survey, principal findings	497, 499
NASA/USAF space probes, 1958, summary	13436	landings—	
nose and fin configurations at Mach 4.0, force measurements on cone-cylinder body of revolution	6703	annual summary, 1958	9032
nose-shape tests in 4,000° F supersonic air jet, exploratory materials	16842	fishery products	2619, 11157
operations, gust loads, estimating problem	1092	mineral industry, minerals yearbook chapter	17693
		post study, wood preservatives comparison	9097
		precipitation data, hourly	2996, 11549
		south, cattle grazing in longleaf pine forests	3594
		TVA program activities	2164
		weather-crops bulletin, weekly	2250, 10702
		wood quality of pine resources	7818
		Yellow Creek Watershed, forest inventory statistics	17136
		Mississippi River and Valley:	
		Alluvial Valley, topographic quadrangle maps, notices	3878, 16740
		Baton Rouge to Gulf of Mexico, investigations and data collection for model study of Southwest Pass	8963
		Cairo, Ill., to Gulf of Mexico, flood control and navigation maps, announcement	5210
		deltaic plain, geology	393

# JANUARY-DECEMBER

	Entry		Entry
Mississippi River and Valley—Con.		Missouri River Basin, progress.	2681, 11220
fisheries—		see also Missouri River and Valley.	
annual summary, 1957	1634	Missouri River Basin project:	
annual summary, 1958	17425	Frenchman-Cambridge Division, Interior Dept. report.	1517
Greenville, Miss., harbor improvements, engineer report—		hydroelectric power supply problems, hearings.	17355
departmental edition	10087	Mistletoe:	
document edition	6939	dwarf mistletoe survey—	
gulf outlet, general information.	6105	Coeur d' Alene National Forest.	12736
harbor improvements at Dubuque, Iowa, engineer report—		Kootenai National Forest.	12735
departmental edition	8964	western dwarf mistletoe on ponderosa pine.	14718
document edition	8534	Misuse of mails in sale of obscenity (statement)	8174
light list and other marine aids, Mississippi River system.	5759	Mites, see Chicken mites—Clover mites.	
lower basin, surface water quality, 1954.	4931	Miticides, chloroacetic acid esters, tests.	7031
Southwest Pssa, investigations and data collection for model study.	8963	Mittens, facts for industry, 1958.	13859
stages and discharges, 1957.	5211	Mize, Harlie L., relief.	4514, 8793, 9767
surface water quality—		MMS series.	934-939, 1909-2009, 3857-59, 5189-200, 4653-59, 8035-45, 9339-50, 10433-451, 13325-360, 15009-24, 16710-715, 17703-704.
lower basin.	14759	Moa Bay, Cuba, nickel-cobalt mining contracts, investigation, hearings.	12291
upper basin.	12772	Mobile, Ala.:	
surface water supply, lower basin.	16474	electric facilities of area, map.	16341
transportation lines on river system.	16270	land conveyance, GSA to quitclaim, hearing.	12539
understory plants of bottomland forests.	6274	maritime future of Gulf area (remarks).	8992
waterborne commerce, 1958.	16271	Old Customs House property, conveyance of U.S. reversionary right—	
Mississippi River basin, see Mississippi River and Valley.		law.	15676
Mississippian period, conodonts from Chappel limestone of Texas.	4930	reports.	14246, 16093
Missouri:		Mobile feed milling by cooperatives in Michigan and Wisconsin.	12625
Bi-State Development Agency compact, amend—		Mobile homes, see Trailers.	
law.	15668	Mobile laboratories for fishery technological research.	422
reports.	15801, 16146	Mobilization, see Armed Forces—Defense mobilization orders—Industry—National defense—National Guard—Transportation.	
census of governments, 1957, State bulletin.	13839	Moderators (reactor), see Reactors (atomic).	
climatological data.	2993, 11546	Modern Buddhism (Chinese periodical):	
convey land to—		articles.	6461, 6570, 12874
law.	11969	Modern concepts of mechanism of antibody formation, USSR.	3734
reports.	7582, 12128	Modernization, see Renovizing.	
credit control in retail farm supply cooperatives.	7684	Modified tubular combustors as high-temperature gas generators.	999
electric rate book.	12651	Modulators, radio transmitter, MD-203/GR, installation and organizational maintenance, technical manual.	9653
mineral industry, minerals year-book chapters.	1095, 17094	Modulus of elasticity, see Elasticity.	
northwestern, loess-mantled slopes, origin of steps.	513	Mohair, production and value of sales, 1958.	5499
precipitation data, hourly.	2996, 11549	Mohammed, Mukhtar, relief.	4540, 13986, 14410
Missouri Basin, see Missouri River and Valley.		Mohammedanism, Islam and the East, oriental arts.	16453
Missouri Basin Inter-Agency Committee:		Mohave, Lake, recreational opportunities.	1114
annual report 1958.	3879	Mohave County, Ariz., Maggie Canyon manganese ore deposit, leaching by dithionate-process pilot plant.	16729
annual report on programming, fiscal years 1959-61.	13380	Moisture:	
minutes of 101st-107th meetings, Index.	13379	barriers, ground-covers in basementless homes, performance.	3575
minutes of 103d meeting.	3879	content—	
minutes of 104th meeting.	6678	fiber flux.	7071
minutes of 105th meeting.	8056	kiln-dried lumber, tests.	9101
minutes of 106th meeting.	13380	logs, effect on power required to saw.	7822
minutes of 107th meeting.	13381	seeds, oven methods for precise measurement.	4184
minutes of 108th meeting.	16741		
Missouri Pacific R.R., accidents.	546, 10208		
Missouri River and Valley:			
Federal power marketing problems, hearings.	8896		
hydroelectric power supply problems of basin, hearings.	17355		
modifications of control shaft, Fort Peck Dam tunnel 4, Mont.	16272		
progress on land use development (address).	17080		
snow survey measurements, 1919-58.	6936		
snow surveys and water supply forecasts for upper basin 2942.	11491		
surface water of basin, quality.	12772		
surface water supply of basin—			
above Sioux City, Iowa.	1717		
below Sioux City, Iowa.	7803		

Do not order from index; see indicated entry

Page 337

# INDEX, 1959

	Entry		Entry
<b>Moisture—Continued</b>		<b>Money—Continued</b>	
determination in grain, regula-		foreign currency transactions—	
tions	5502	continued	
<b>Moisture meters, appraise decay bas-</b>		law	15706
<b>ard using resistance-type wood.</b>	14717	minority report	14262
<b>Mojave Desert, and adjacent region,</b>		reports	12441, 14262, 14289, 15919
California, geologic investiga-		<b>foreign exchange rates—</b>	
tions (series)	9115, 6283	monthly	2578, 11115
<b>Mola, Leonora H., relief</b>	7352, 8789, 11881	weekly	2579, 11116
<b>Molasses:</b>		hard problems and soft hearts	10108
feed and industrial, annual mar-		Indian school student funds, regu-	
ket summary	5476	late handling—	
feed, factors in developing grades		law	7305
and standards	3070	reports	4551, 6020
market news	2251, 10703	know your money, counterfeited	8211
sugarcane, standards for grades	17181	money, etc.	
<b>Moldavian Soviet Socialist Republic:</b>		management to promote prosperity	
new born, causes of morbidity and		with stable prices	17817
mortality, clinical analysis	14858	monetary policies in President's	
public health, development	12987	program, amend employment	
<b>Molders, Navy training courses</b>	6849	act—	
<b>Molding sands, see Sand.</b>		hearings	7467
<b>Moldings, wood, free importation,</b>		report	9848
hearing	12532	views	9848
<b>Molds (forms):</b>		monetary policy and debt manage-	
shells, sodium-silicate bonded, meth-		ment, questions prepared for	
od for producing	9445	study of employment, growth,	
sintered alumina, for investment		and price levels	15755
casting of steels	9444	monetary policy decision-making of	
<b>Molecular weight, determinations in</b>		Federal reserve system (ad-	
solutions, thermometric meth-		drees)	9008
od	4364	monetary system, consolidated con-	
<b>Molecules:</b>		dition statement	11103
capture of free excitons by impuri-		money supply and debt management	
ties in crystals, USSR studies	4972	in relationship to economic	
flow through microporous media,		conditions, hearings	15754, 17317
theory of flow phenomena	4310	open-market rates	2588, 11125
high molecular substances, chem-		savings process and monetary pol-	
istry, Soviet abstracts	662-663,	icy (address)	6166
787, 1818, 1861, 3747, 3765,		supply changes, influence on prices,	
6075, 10289-290, 13164, 13187,		hearings	12031
13214		see also Inflation (finance).	
vibrations, effect on steady one-di-		Money orders, agreement with, United	
mensional flow	15082	Arab Republic	17110
<b>Mollusks, marine, Point Barrow,</b>		<b>Mongolia:</b>	
Alaska	15096	Inner—	
see also Gastropods.		economic development results and	
<b>Molokai project, report of Interior</b>		state plan, 1957	13178
Dept	298	party activities, 1953-59, transla-	
<b>Molybdenum:</b>		tions from Communist China's	
minerals yearbook chapter	15027	publications	16537
production, etc., 1958	8044	report on 1958 economic plan and	
reports, monthly	2819, 11363	proposed second 5-year plan	9208
tensile properties from 2500° to		Tu-shih-pa-ka, semi-agricultural	
3700° F.	5298	and pastoral area	9170
<b>Moments, see Magnetic moments.</b>		Japanese research studies	5008
<b>Mona Island, geology and notes on</b>		Outer, translations	16573
age of Mona Passage	12769	<b>People's Republic</b>	
<b>Mona Passage, geology and notes on</b>		criminal legislation	591
age	12769	economy development, role of	
<b>Monacelli, Anthony E., relief</b>	7527, 8603, 11909	socialist order	5054
<b>Monaco, establishing business</b>	458	State Bank, translations	16573
<b>Monana County, Iowa, soil survey</b>	6941	<b>Monitoring, see Radiation monitor-</b>	
<b>Monetary policy, see Money.</b>		<b>ing.</b>	
<b>Money:</b>		<b>Monitors (aeronautics):</b>	
and credit in 1958	4828	vhf omnirange station, CAA spec-	
and credit in economic expansion	12660	ification	241
banking and monetary statistics,		<b>Monk, Dorothy, relief</b>	4496
1958	6161, 9007	<b>Monkeys, Jupiter missile shot, experi-</b>	
circulation statements	2970, 11519	ment results, hearing	14353
code of Federal regulations	9001	<b>Monmouth County, N.J.:</b>	
counterpart funds and ICA foreign		settlement of claims—	
currency accounts	2685, 11225	law	12014
currency convertibility and trade		reports	7394, 10010
discrimination (statement)	9509	<b>Monographs, see names of depart-</b>	
east Germany, foreign trade opera-		ments, etc., issuing Mono-	
tional valuta reserve, planned		graphs—also subjects.	
procurement	854	<b>Monopolies:</b>	
<b>Federal funds market, study</b>	10107	administered prices—	
foreign currency transactions, ex-		hearings	3392, 4747, 8899
tend agricultural trade devel-		reports, print additional copies,	
opment and assistance act of		report	12512, 14278
1954—		antimonopoly laws, investigation,	
hearings	12273	report of findings	4722



# JANUARY-DECEMBER

	Entry
<b>Monopolies—Continued</b>	
antitrust laws, investigation—	
authorization of Attorney General and compel production of documentary material, hearings—	7632
authorization, report—	8368
expenses, report—	12511
aviation insurance industry, hearings—	7637
bank mergers, regulate—	
hearings—	6052
report—	7548
views—	7548
Clayton act, amend, hearings—	12300
concentration in American industry, report, additional copies, report—	14278
Federal Trade Commission cease-and-desist orders under Clayton act, finalize—	
hearings—	9917
law—	11994
reports—	4728, 9880A
Federal Trade Commission premerger court injunctions, amend Clayton act, hearings—	7640
interlocking bank directorates under Clayton act, regulation—	14643
law-enforcement activities affecting small business, report—	3290
legislation affecting Clayton act, hearings—	7640
milk distribution, case study—	
report—	6069
report, additional copies, reports—	12512, 14278
premerger notification legislation, amend Clayton act, hearings—	7640
price discrimination, amend Clayton act, hearings—	12560
restrictive business practices, conference, proceedings—	10049
scrap steel industry problems—	
report—	17348
views—	17348
see also Competition.	
Monorail conveyors used in eviscerating poultry, interim report—	5477
Monroe, La., railroad accident—	10208
<b>Montana:</b>	
Billings area, Indians on Federal reservations basic information digest—	1150
Boulder batholith, mineralogy of uranium-bearing deposits—	8400
brucellosis eradication program, vaccination survey, beef cattle, 1952-58—	8296
census of government, 1957, State bulletin—	11788
Christmas tree exports continue decline—	12733
climatological data—	2993, 11546
cooperative country grain elevators—	12626
durum wheat allotments, increase—	
hearings—	6043, 7438
report—	12445
Hebgen Lake earthquakes, 1959—	15540
mineral industry, minerals year-book chapter—	3948
precipitation data, hourly—	2996, 11549
snow survey data, measurements—	9498
snow surveys and water supply forecasts—	2942, 11491
timber resources, use and development, survey—	3344
western, reconnaissance for radioactive minerals, 1952-55—	3600
Montauk Point, N.Y. to Manasquan, N.J., coastal warning facilities chart—	5461

	Entry
Montenegro, Rosa M., relief—	8773, 11946, 12066
Montezuma Castle National Monument:	
general information—	8126
revise boundaries—	
law—	9783
reports—	7385, 8860
Montezuma National Wildlife Refuge, birds—	3510
Montgomery County, Md., civil defense action guide—	17294
Monthly:	
NOTE.—For all publications which begin with the word "Monthly" see subject, or name of department, etc., issuing publication.	
Monticello Dam, design and construction—	8206
Montrose County, Colo., Jo Dandy area, Morrison formation, distribution of chemical elements in Salt Wash member—	16466
Monuments, see names of places where erected.	
<b>Moon:</b>	
observations, contributions to geodesy—	640
probes, U.S. and Russia, statistics—	9388
rocket, Soviet launching of Mecha or Lunik, report—	15863
3-dimensional lunar mission studies—	13437
Moral education, program, USSR study—	7922
Morale, in business, managing for improvement—	4055
<b>Morbidity:</b>	
adjustive reactions in connection with chilling factor—	620
among rural population of Kiyevskaya Oblast, Ukrainian SSR, USSR experimental study—	13238
animal morbidity report—	2270
cancer, United States—	4026
causes in new born, clinical analysis, Moldavian SSR—	14858
childhood, role of pediatric science in reduction, USSR study—	14928
morbidity and mortality weekly report—	2857, 11398
statistics, USSR populace—	10831
see also Diseases of animals.	
More than bread, social services in public assistance, community resource—	2134
Morgan, Anne, relief—	14154
Morgan City, La., to Apalachicola, Fla., coastal warning facilities charts—	2175, 15242
Morgan City, La., to Brownsville, Tex., coastal warning facilities chart, 1959—	15243
Morgan County, Tenn., economic improvement through forest utilization and development—	8257
Morgenthau, Hans J., foreign policy statement, hearing—	7616
Mormon crickets, control, etc.—	9602, 13741
Morning reports, Army National Guard, N.G. regs—	5315
<b>Morocco:</b>	
communists national liberation movement, principal tasks—	1761
investment law—	3531
preparing shipments to—	3538
<b>Morphology:</b>	
bats, basis of locative and ultrasonic abilities, USSR study—	16618
blood changes during radiation illness, USSR studies—	1865

# INDEX, 1959

	Entry		Entry
<b>Morphology—Continued</b>		<b>Mortgages—Continued</b>	
morphological changes due to effect of changes in atmospheric pressure under experimental conditions, USSR study.....	12945	faru—continued	
morphological changes in peripheral nervous system of animals at long periods after acute radiation sickness, USSR.....	14857	lending experience of life insurance companies, etc.....	3035, 8291, 11601
morphological structure of interceptive analyzer and certain peculiarities of its work.....	14913	farm-mortgage debt—	
characteristics of vaccine process in brucellosis.....	6416	continued rise.....	47
human and animal, Soviet abstracts.....	3754, 6516, 10282, 10297, 10318, 13007, 13019, 13075, 13079, 13104, 13192, 13198, 13205, 13232	new high level.....	13711
invertebrate, papers.....	9495	farm-mortgage loans of Federal land banks.....	4154
mechanisms of evolution of central nervous system in vertebrates, USSR study.....	17632	farm-mortgages experience of various lenders.....	46
morphologico-physiological analysis of compensatory mechanisms of sensory-motor functions following injury to spinal cord, USSR.....	3687	financing data, FHLBB monthly reports.....	2543, 11079
problems, USSR study.....	16696	FNMA-owned, exchange for U.S. 2% percent treasury bonds.....	16325
research in view of 21st CPSU Congress, USSR study.....	12989	home—	
shrimp, white, anatomical study.....	4855	estimated debt and financing activity.....	2539, 11075
Morris, Esther:		outlook for 1959.....	3455
statue—		insured under national housing act, amortization and insurance premium tables.....	16319
acceptance, reports.....	12508, 14276	life insurance companies in D.C. to make loans to 75% of property value—	
dedication proceedings, print, report.....	14282	law.....	15694
placement in Capitol rotunda, report.....	14275	reports.....	14201, 16141
Morris County, N.J., Scrub Oaks Mine, radioactive rare-earth deposit.....	6287	markets, study papers.....	1568
Morrison formation, see Jurassic period.		nonfarm investments of life insurance companies.....	12641, 14625
<b>Mortality, see Death.</b>		nonfarm real estate foreclosure reports.....	2538, 11074
<b>Mortgage insurance:</b>		participation loan program of savings and loan associations.....	3820
armed services housing insurance, administrative rules and regulations, under FHA sec. 803 and 809.....	7705	recording letter.....	2537, 11073
dealers and individuals subject to certain sections of title 1, National housing act, list.....	4815	savings and home financing source book, 1959.....	12643
FHA, increase authorization—		savings and loan associations activity, monthly reports.....	2541, 11077
hearings.....	8383, 4648	savings and loan associations insured Government underwritten holdings.....	16318
law.....	15736	see also Loans.	
message from the President.....	15771	<b>Mortuary services, see Undertakers and undertaking.</b>	
reports.....	3380, 4595, 7429, 9867, 14444, 14495, 15833-834, 16145	<b>MOS, see Military occupational specialties.</b>	
veto.....	9943, 15991	Mosales, aerial, status, national atlas sheet.....	14750
veto, hearings.....	12528	Moscow, USSR:	
views.....	3380, 4595	development of public health network, prospects for 1959-65.....	10386
home-buying serviceman, FHA information.....	1623, 16321	Geographic Society meteorological commission, meetings, etc.....	1882
home mortgages, increase, FHA authorization, recommendations of the President.....	8768	medical industry, fulfillment of 7-year plan.....	16599
mortgagees' handbook, FHA guide, revised pages.....	4816, 12646	Moscow City Scientific Research Institute imeni Sklifosovskiy, clinico-anatomical conferences.....	6607
premium tables.....	16319	Moscow Scientific Society of Roentgenologists and Radiologists, achievements in development of Soviet radiology.....	12940
private financing stimulation under FHA sec. 220 and 221.....	6992	Moscow Society of Naturalists, Geological Division, bulletin, abstracts.....	7167
relocation housing, questions and answers on section 221.....	16323	Moscow Society of Therapists, minutes of meeting.....	6606
<b>Mortgages:</b>		Moscow University:	
credit, study—		herald, physico-mathematical and natural sciences series, abstracts.....	10805
papers.....	1568	research on adsorption by chemical faculty.....	12984
problems of private housing, hearings.....	12529	scientific activities in fields of physics, chemistry, geology, and geography during postwar period.....	6624
farm—		<b>Mosquitoes:</b>	
lending experience of Farmers Home Administration.....	3035, 8291	anatomical life.....	17847
lending experience of Federal land banks.....	3035, 8291	how to control them on your property.....	15311
		medical importance of.....	15302

	Entry
<b>Mothers:</b>	
maternal and child health services—	
1956 statistics.....	15491
1957 statistics.....	15495
maternal disorders related to fetal stress, etc., selected references.....	17052
mortality—	
1955 statistics.....	15492
United States, etc., 1957.....	16958
preferences for cotton and other fibers in children's clothes.....	3019
<b>Moths, how to separate damage by</b>	
European pine moth, Zimmerman pine moth and pitch mass borer.....	17464
see also Gonodonta moths—also Gypsy moths—Microlepidoptera—Tussock moths.	
<b>Motion:</b>	
rectilinear with variable velocity, extending Lorentz transformation.....	9386
stability, theory.....	1375
see also Equations of motion.	
Motion picture photography, see Photography.	
<b>Motion pictures:</b>	
Agriculture Department.....	11218
monthly list.....	2679
Air Force film directory, manual.....	5583
apprentice editorial specialist, on-the-job training.....	11675
Civil aviation, bibliography.....	4958
civil defense, list.....	13873
copyrighted July-Dec, 1958.....	7651
directory of film libraries.....	1592
Forest Service films available for educational purposes, list.....	4912
George Washington's river, water pollution film.....	8189
Library of Congress catalog.....	2770
10412	11310
medicine and allied sciences, film reference guide.....	13467
national defense education act of 1958—	
administration, hearings.....	5924, 9908
guide.....	3420
new educational media program.....	6099
nursing.....	3424
on child life, list.....	8465
overseas film program of USIA.....	13653
United States educational, etc., selected for use abroad, catalog.....	17149
viewer, 16-mm film, military standard.....	10066
<b>Motive power, see Power.</b>	
<b>Motive products, price indexes, 1957—</b>	899
<b>Motor boats:</b>	
mailboat service in Alaska, restrict route.....	12566
hearing.....	12483
report.....	
<b>Motor buses, see Motor vehicles.</b>	
<b>Motor carrier decisions, see Interstate Commerce Commission.</b>	
<b>Motor carriers:</b>	
Alaska, ICC permits, grant grandfather rights, report.....	9984
cost of transporting oil field equipment & supplies.....	14787
cost study of freight transportation.....	3628-30
District of Columbia, mileage tax exemption, report.....	7407
freight commodity statistics, 1957.....	1736
freight handling, determining cost.....	10501
Government passenger-carrying motor vehicles, safety standards, establish, report.....	12211
interstate commerce act, supplementary acts, etc.....	9150
mail transportation (remarks).....	6896

	Entry
<b>Motor carriers—Continued</b>	
private car lines, transport statistics, 1958.....	16502
revenues, etc., of class 1 motor carriers—	
passengers, quarterly.....	2714, 11253
property, quarterly.....	2715, 11254
transport industry, problems (address).....	15551
transport statistics, report, 1957.....	550
4965, 9154	
see also Motor vehicle accidents.	
<b>Motor fuel:</b>	
agricultural crops as source, bibliography.....	15288
aircraft, spontaneous flammability of pentaborane and pentaborane-3-methylpentane blends.....	974
aircraft and rockets, metal alkyls, thermal decomposition.....	6721
Federal tax increase, recommendation of the President.....	8768
liquefied hydrocarbon gases as turbojet fuels, evaluation.....	1014
Navy jet mix and J1-3, in tubular and annular combustors, performance comparisons.....	963
slurry, NACA research.....	6684
tax increase—	
hearings.....	14361, 14557
law.....	15707
reports.....	15876, 15886, 16128
views.....	15876, 16128
tributyl borate and JP-4 mixture, turbojet engine operation tests, results.....	971
see also Gasoline.	
<b>Motor oils, see Lubricants.</b>	
<b>Motor psychology, see Movement (psychology).</b>	
<b>Motor trucks, see Motor trucks.</b>	
<b>Motor vehicle accidents:</b>	
class 1 motor carriers of passengers, data, quarterly.....	2704, 11243
death rates by age, color, and sex, 1949-51.....	13485
investigation reports.....	6337, 7883, 10205, 12796
motor carriers of property, accident data, quarterly.....	2705, 11244
<b>Motor vehicle operators:</b>	
Federal, defense of suits against—	
hearings.....	14346
report.....	12115
Federal driver handbook.....	17421
<b>Motor vehicles:</b>	
administration, operation and management, Air Force manual, change.....	7093
Air Force manual.....	7093
and highways, improvement (address).....	15174
automotive parts wholesaling, Federal wage-hour law application.....	5457
China, production in 1958.....	4996
discharging unburned hydrocarbons in amounts dangerous to human health prohibit, hearings.....	14342A
economic efficiency of using diesel engines, USSR study.....	9205
exhaust discharges, effect on human health, Surgeon General to study, report.....	14214
farmers' expenditures.....	5556
fire-fighting apparatus, facts for industry.....	13863
glass and painting, Federal supply schedule.....	3487
Government owned, penalties for unauthorized use, amend act—	
hearing.....	12292
report.....	14245

# INDEX, 1959

Entry	Entry
Motor vehicles—Continued	Mount Vernon Memorial Highway :
Government : passenger - carrying,	land acquisition—
safety standards, establish—	law..... 9773
hearings..... 14342A	reports..... 4549, 5895, 7585
report..... 14241	Mountain area work in Kiangsi Com-
highway program and problems	munist China..... 9229
(address)..... 9473	Mountain hemlock, see Hemlock.
manufacturers—	Mountain operations (field manual)..... 3136
insuring and financing automo-	Mountain Pacific chapter of Associ-
biles purchased by consumers,	ated General Contractors, Inc.,
prohibit, hearings..... 12554	NLRB decision (addresses)..... 6815,
prevent from financing sales,	10512
hearings..... 12554	Mountain States, national highway
operation of speedometers, amend	program progress (address)..... 9475
U.S. Code, hearings..... 14342A	Mountain waves, rotor flow in lee of
parking areas, amend D.C. stadium	mountains..... 5597
act of 1957—	Mourning doves, see Pigeons.
law..... 15742	Movement (psychology) :
reports..... 12144, 12261	conscious control in man, origin
parts and accessories, Federal sup-	and development, USSR study..... 14059
ply schedule..... 6170	Moving pictures, see Motion pictures.
prohibit use to hunt wild horses—	Mowery, Edward J., articles on efforts
law..... 15618	of Communist conspiracy to
reports..... 14281, 16078	discredit FBI and its director..... 7497
safety legislation, hearings..... 14342A	Moxibustion, acupuncture - moxibustion
sold shipped, or used in interstate	therapy in treatment of
commerce, require safety de-	radiation reaction, Chinese
vices, hearings..... 14342A	study..... 9197
speed trends on highways..... 6918	Mozambique, economy, basic data..... 1652
world registration, 1958-59..... 15456	MP series..... 3199, 8468, 11829, 13873
see also Motor carriers.	MR series..... 5365,
Motorboats :	9685-98, 11767, 18824-828,
act of 1940, make applicable to	17005
Guam, Virgin Islands, and	Mud, oil-base, cable-tool coring in Ap-
Puerto Rico, report..... 16067	palachian oilfields..... 3871
numbering requirement act—	Mud Lake National Wildlife Refuge,
extend certain provisions, report..... 16118	general information..... 16386
extend effective date, report..... 15846	Mudd, Samuel A. :
highlights..... 8246	memorial tablet, erection at Garden
make applicable to Guam, Puerto	Key, Fla.—
Rico, and Virgin Islands, re-	law..... 15666
port..... 16067	reports..... 14269, 16176
Motors, fractional horsepower, indus-	Muddy Mountains, airborne radio-
try outlook for 1959 and re-	metric reconnaissance..... 13798
view of 1958..... 1418	Mueller, Ellen B., relief..... 4689, 8588, 11899
see also Electric motors.	Mugil cephalus, see Mullet.
Motortruck drivers :	Mulch around newly planted trees
and helpers union wages and	can be detrimental..... 12724
hours—	Muldoon, Patrick, relief..... 14155
departmental edition..... 9291	Mules, use on farms..... 7034
document edition..... 8538	Muller, Peter R., relief..... 7523, 8594, 13936
Motortrucks :	Mullets, striped, larval development,
cargo 2½ tons, 6x6, M602, organi-	growth, and spawning along
zational and field maintenance,	south Atlantic Coast of U.S..... 3501
technical manual..... 11710	Mulligan, Christopher J., relief..... 12061,
industry outlook for 1959 and re-	15583, 16019
view of 1958..... 1433	Mullite, dissolving mechanism in
lift, fork—	aluminosilicate slag..... 1781
gasoline and electric, test and in-	Multichannel differential discrimi-
spection, military standard..... 858	nator, China..... 6399
gasoline, pneumatic tires test	Multiphase elapsed-time e re-
and inspection, military stand-	corders of voltage amplitudes..... 5343
ard..... 7661	Multi-level continuous sampling
multifuel-diesel-engine, final re-	procedures and tables for sampling
port..... 17140	by attributes..... 1581
production reports, monthly..... 2338, 10832	Multiple cropping index in Taiwan..... 809
Motortrucks in freight service :	Multiple sclerosis :
agricultural exemption in interstate	presumption of service connection,
trucking, developments 1957-58..... 18733	extend period—
interstate trucking of frozen fruits	law..... 14042
and vegetables, effects of agri-	reports..... 8674, 12517
cultural exemption..... 5549	Multipiers, electron tube, high-cur-
livestock marketing, hired truck	rent, grid-controlled, design,
transportation..... 4179	etc..... 13514
Mount, see name of mountain, except	Multiquart containers, their signifi-
when "Mount" occurs as first	cance in dairy cooperatives..... 3434
word of name of town, etc.	Munich, Germany, operations of USIA
Mount Locust, general information..... 8127	radio broadcasting center, re-
Mount Rainier National Park :	port..... 16189
general information..... 5333	Municipal Court for District of
headquarters site at Ashfort, Wash.,	Columbia :
report..... 8865	Domestic Relations Branch, extend
	jurisdiction to cover adjudica-
	tion of property rights in cer-
	tain actions—
	law..... 15622
	reports..... 14464, 15828



# JANUARY-DECEMBER

	Entry
Municipalities, <i>see</i> Cities and towns.	
Munitions:	
arms and armaments, PACAF basic bibliographies	8365
arms control problems in Europe, handbook	10035
hazardous, transportation on board vessels, rules and regulations	1503
international traffic in arms, regulations	5418
reduction, devote savings to works of peace, report	12476
reduction problems and foreign policy hearings	6057, 7610
Murray, James E., appointment as member ex officio to Select Committee on National Water Resources report	8821
Muscat, amity, economic relations, and consular rights, treaty, text	12343
Muscle Shoals, Ala., TVA operations in area, description	15231
Muscles:	
flexor reflex of shin in rabbits, change in latent period following general irradiation with 10 R dose of X-rays, USSR studies	7940
skeletal, in ontogenesis, role of cerubellum in development of functions, USSR study	16622
Museum aid:	
examination announcement	5731
discontinuance notice	5745
Museums, <i>see</i> names of museums or places where located.	
Music:	
Armed Forces hymnal	6080
copyrighted, catalog of copyright entries	344, 4751, 16232
Library of Congress catalog	13304
rendition on coin-operated machines, amend U.S. Code, hearings	14345
sociological aspects (lectures)	3833
Musical instruments, sociological aspects (lectures)	3833
Muskmelons:	
cantaloup insects, how to control—new variety of cantaloup, market test	4172, 11580
Muskogee County, Okla., petroleum-engineering study of oilfield	8046
Muskrats and their control	14678
Mussels, certified shippers	2894, 11436
Mutton, purchase specification requirements approved by USDA	13692
Mutual aid, <i>see</i> Foreign aid—Military aid.	
Mutual assistance, <i>see</i> Military aid.	
Mutual defense, <i>see</i> Military aid.	
Mutual defense assistance control act of 1951, <i>see</i> Exports.	
Mutual security, <i>see</i> Foreign aid—Military aid.	
Mutual security program, <i>see</i> Foreign aid.	
Mydlak, Julia, relief	12351, 14138, 15560
Myers, Carlton H., contested election complaint	7336
<b>N</b>	
N.A.C.A., <i>see</i> National Advisory Committee for Aeronautics.	
N.A.S.A., <i>see</i> National Aeronautics and Space Administration.	
N.A.T.O., <i>see</i> North Atlantic Treaty Organization.	
N.B.S., <i>see</i> National Bureau of Standards.	
N.G., <i>see</i> National Guard.	

	Entry
N.I.H., <i>see</i> National Institutes of Health.	
N.L.R.B., <i>see</i> National Labor Relations Board.	
N.M.B., <i>see</i> National Mediation Board.	
N.R.A.B., <i>see</i> National Railroad Adjustment Board.	
N.R.L., <i>see</i> Naval Research Laboratory.	
N.S.A., <i>see</i> National Security Agency—National Shipping Authority.	
N.S.F., <i>see</i> National Science Foundation.	
NACA, <i>see</i> National Advisory Committee for Aeronautics.	
Nacelles:	
jet effects on flat surface downstream of exit at free-stream Mach no. 1.30	6736
wing-mounted, effects upon body drag of jets	13418
zero-lift straight-wing-body-nacelle configuration, supersonic-area-rule design and rocket-propelled flight investigation	16824
Naggar, Jacob, relief	4543
Nagy, Marta, relief	14379
Nailed and lock-corner wood boxes	4908
Nailing better wood boxes and crates	13722
Nails and spikes:	
steel, production, etc., facts for industry	7210
use for better wood boxes and crates	13722
withdrawal resistance of American woods	6255
Nakamura, Harry H.:	
relief—reports	4670, 8553
veto	12333
Names (business), <i>see</i> Business names.	
Names (geographical), <i>see</i> names of special localities.	
Nan-ch'ang, China, plans for modern industrial base in 5 years	6496
Nantucket, Mass., aircraft accident	7230
Nan-t'ung, China, summary of 1958 tasks for city development	9221
Naperville, Ill., population, special census	15469
Napoli, John relief	14195
Napora, Stanislaw (Stanislaus): relief	7522
Narcissus bulb fly, <i>see</i> Flies.	
Narcotic habit, interim report of joint committee of American Bar Association and American Medical Association	5212
Narcotics:	
act of 1909, amend, report—comments, interim report of joint committee of American Bar Association and American Medical Association	15840
decisions	5212, 11523
laws, compilation	15760
manufacturing act of 1960, report	15840
regulatory taxes	17719
traffic, 1958	10463
uniform drug act of D.C., amend—law	14059
reports	14212, 14459
Narcotics Bureau, regulations	17719
NAREC, <i>see</i> Electronic computers.	
NASA, <i>see</i> National Aeronautics and Space Administration.	
Naselli, Girolamo, relief	4693, 8597, 11904
Natality, <i>see</i> Birth.	
Natchez Trace Parkway:	
general information	6832
Mount Locust	8127
Tupelo-Bakley Press Parkway	15118
National, <i>see</i> headings beginning Federal—Government—National.	

# INDEX, 1959

	Entry
National Academy of Sciences, International Geophysical Year activities, report, hearings-----	5915
National Advisory Committee for Aeronautics:	
Government publications, price list-----	8187
report 1957, including technical reports-----	3881
report, 1958-----	
departmental edition-----	8060
document edition-----	7495
report series-----	947-951
2017-20, 3882, 5214-20, 6680-84, 8061-73, 9357-61, 10465-467, 13383-884, 16742-743.	
research abstracts and reclassification notice-----	2843
research memorandum RM (series)-----	952-
1078, 2021-42, 3883-3916, 5221-56, 6685-6750, 10468-489, 13385-430, 15045-70, 16744-864, 17722-733.	
technical notes-----	1091-98, 3917, 5257, 6751, 8074, 9362, 13431
technical publications, July 1957-Sept. 1958, index-----	13382
National Advisory Committee for the Blind, establish, hearings-----	7460, 8728
National Advisory Council for International Health and Medical Research:	
establish-----	
hearings-----	15940
report-----	7577
National Advisory Council for International Medical Research, establish, hearings-----	7642
National Advisory Council on International Monetary and Financial Problems:	
reports-----	
Apr. 1, 1956-Mar. 31, 1958-----	3285
Jan. 1-June 30, 1958-----	5811
July 1-Dec. 31, 1958-----	15768
increases in resources of International Monetary Fund and International Bank for Reconstruction and Development-----	4456
Inter-American Development Bank-----	8543
proposed establishment of International Development Association-----	14365
National Advisory Council on Juvenile Delinquency:	
establish-----	
hearings-----	5923, 10051
report-----	16083
views-----	16083
National Aeronautics and Space Administration:	
activities (address)-----	5306
appropriations, 1959, supplemental-----	
hearings-----	4734, 7487, 9897
law-----	7302
proposal-----	7331A
reports-----	4727, 5865, 5898
appropriations, 1960-----	
hearings-----	8873, 9897, 9928
law-----	9777
proposal-----	8550
reports-----	7427, 8832
contributions to space power for peace (address)-----	8058
international cooperation in space research (address)-----	8059
lease buildings in D.C., through GSA-----	
hearings-----	7486, 7598
law-----	7309
reports-----	4618, 7533

	Entry
National Aeronautics and Space Administration-Continued	
memorandums-----	1079 90, 2043-53, 3918-47, 5258-5301, 6752-94, 8075-89, 9363-86, 10490-505, 13432-437, 16865-868.
program (addresses)-----	2054, 6679, 10464
program, report of 5 months progress (statement)-----	5307
publications announcements-----	1090, 2844
releases-----	2846, 11387
republishing RE (series)-----	3948-49, 5302-3, 6795-96, 8090, 13438.
semiannual report-----	
departmental edition-----	15088
document edition-----	14112
space probes, 1958, summary-----	13436
space program, plans (address)-----	17720
space sciences program, description-----	8091
technical notes-----	13439-451, 15071-85, 16869-929, 17734-758
technical publications announcements-----	11386
technical reports-----	17763-767
technical translations-----	15086-87, 17759-761
transfer, hearings-----	7618, 10044
National Aeronautics and Space Council, members, nominations of William A. M. Burden and John T. Retalliat, hearing-----	8874
National air sampling network, air pollution program, etc., errata-----	1148, 6909
National Archives and Records Service:	
preliminary inventories, series-----	9390-93, 13456, 15091, 16932-935
publications, list-----	9394
special lists-----	5309
National atlas of United States:	
price list-----	16468
separate sheets-----	11606, 11611, 11622, 11812, 11851-859, 12797, 14749-753.
National banking associations, see National banks.	
National banks:	
condition, abstracts of reports-----	2441, 10973
laws, amend to clarify, repeal obsolete provisions, etc.-----	
hearings-----	8726, 16194
law-----	14078
reports-----	12192, 12226, 14507
laws and related statutes, compilation-----	11874
lending and borrowing limitations, amend-----	
hearings-----	8726, 16194
law-----	14089
reports-----	12191, 12227, 14508
loans on real estate, State-guaranteed, exempt from Federal reserve act, report-----	12427
McFadden act, history, etc., compilation-----	12282
statutes affecting powers as insurance agents, compilation-----	12284
underwriting limitations, correct revised statutes of U.S.-----	
law-----	15643
reports-----	15788, 16097
National Botanic Garden, appropriations, 1960, legislative, reports-----	8671, 8869
National Bureau of Standards:	
applied mathematics series-----	8094-95, 13457
briefing on functions and responsibilities, report-----	15961
circulars-----	2056-58, 3952, 5310-11, 6799-6802, 8097, 9395, 10506, 13458, 16937, 17768
handbooks-----	6803, 8098, 9396, 17769

# JANUARY-DECEMBER

	Entry
<b>National Bureau of Standards—Con.</b>	
journal of research.....	2849,
11390-391, 16938-939	
title page, etc., v. 60.....	1100
title page, etc., v. 61.....	9397
title page, etc., v. 62.....	15092
Library, periodicals and serials received.....	3952
miscellaneous publications.....	1101,
3953, 16940	
NBS monographs.....	16941, 17770
operations, briefing, hearings.....	12313
publications, list, supplementary.....	
July 1, 1957-Dec. 31, 1958.....	6799
July 1, 1957-June 30, 1959.....	13458
refinements in definitions of yard and pound.....	17771
report, 1958.....	3954
research highlights.....	3954
research papers, compilation.....	16938-939
standard materials, descriptive listing.....	6801
technical news bulletin.....	2850, 11392
technical note.....	16942
test fee schedules, 1959.....	8099
transfer, hearings.....	7618, 10044
<b>National Cancer Institute:</b>	
description.....	8103
journal.....	2851, 11393
research fellows, directory.....	10509
<b>National Capital, see Capital of United States.</b>	
<b>National Capital Housing Authority:</b>	
appropriations, 1960, hearings.....	5914
property acquisition under alley dwelling act, facilitate, report.....	7591
<b>National Capital Parks, outdoor program, 1959.....</b>	<b>6834</b>
<b>National Capital Planning Commission:</b>	
appropriations, 1960—	
hearings.....	5911, 8883
law.....	11961
reports.....	5876, 8713, 8844
<b>National Capital Transportation Authority, establish, draft legislation, staff report.....</b>	<b>17362</b>
<b>National cemeteries:</b>	
eligibility requirements for burial, revise—	
law.....	14093
reports.....	9982, 14310
<b>National Civil Defense Day:</b>	
newspaper kit.....	247
radio and TV kit.....	248
speakers kit.....	249
special promotion series bulletins.....	2397
<b>National Commission for UNESCO, see United States National Commission for UNESCO.</b>	
<b>National Committee on Radiation Protection and Measurements,</b>	
recommendations, maximum permissible body burdens and concentrations of radionuclides in air and water for occupational exposure.....	9396
<b>National Conference on Air Pollution:</b>	
highlights, 1958.....	4022
proceedings.....	6913
<b>National Conference on Weights and Measures, report, 1958.....</b>	<b>1101</b>
<b>National Consumers League, joint conference with Women's Bureau on State labor laws affecting women, report of proceedings.....</b>	<b>9556</b>
<b>National Cultural Center:</b>	
construction, amend act—	
law.....	15662
report.....	16174
<b>National debt, see Public debt.</b>	

	Entry
<b>National defense:</b>	
adequacy of transportation in event of mobilization, hearings.....	17330
adequate supply of freight cars, insurance—	
hearings.....	12551, 14342
report.....	12400
agreement with—	
Canada.....	9522, 17874
China.....	8239, 17106
France.....	8235
Greece.....	17865
Italy.....	8246
NATO Maintenance Supply Service System.....	13629
Peru.....	13625
Spain.....	8248, 15211
Thailand.....	13618
Turkey.....	17866
air defense artillery automatic weapons, crewman, MOS proficiency test aid.....	4288
air defense missile crewman, MOS proficiency test aid.....	7128
Air Force manual.....	3108
Army deployed forces, 1st line of defense, pamphlet.....	15387
challenge of Soviet power (address).....	10592
code of Federal regulations.....	6145,
5152-53, 7722-23, 9003	
economic and defense role of U.S. ports.....	16324
education act of 1958—	
administration, hearings.....	5924, 9908
area vocational education programs, suggestions to States.....	4778
counseling and guidance training institute program, analysis.....	870
graduate fellowship program.....	7670,
8947	
guide.....	3420
language instruction development program.....	871
loyalty oath provision eliminate—	
hearings.....	8904
report.....	12402
views.....	12402
new educational media program.....	6099
student loan program—	
general information.....	7671
general information and instruction, manual.....	1597
including list of participating institutions, 1958-59.....	6098
questions and answers.....	4779
expenditures reduction, agreement with Japan.....	10606
investigation, report.....	15039
major matters, investigation, hearings.....	7604, 10031
missile and space activities, investigation, hearings.....	4736
missile development and space sciences—	
hearings.....	8753
additional copies, report.....	15905
reports.....	9863, 9925
<b>mobilization—</b>	
capability sources (address).....	11825
legal authorities.....	15509
national plan—	
authorities.....	15509
disaster services.....	4370
individual action.....	4367
organization.....	13875
planning basis.....	13874
preparation for continuity of Government.....	4368
programs, etc., progress report, hearing.....	15752
research and development.....	13877
role of the military.....	13876
shelter plan.....	4369

# INDEX, 1959

Entry		Entry	
<b>National defense—Continued</b>		<b>National Guard—Continued</b>	
mobilization—continued		<b>Army—Continued</b>	
national, regional, State officials, etc., directory.....	5721	officers and warrant officers qualification record, regs.....	5314
report.....	8346	personnel, Army service schools, schedule of classes, NGB pamphlet.....	10507
what we are doing in age of peril (address).....	7234	report, 1958.....	9398
plan briefing on air defense missiles, hearing.....	15967	enlisted personnel, regs.....	1103, 6805-6
planning for emergencies (address).....	7252	enlistment and reenlistment, regs.....	6805
policies in 1958.....	15775	information for businessmen.....	16943
print, report.....	15902	members, make eligible for burial in national cemeteries—	
preparedness, food industry and related services for security (notes used in address).....	93	law.....	14093
preparedness, military posture briefing, hearing.....	5645	reports.....	9982, 14310
preparedness operations, investigation—		Michigan, land for use, report.....	12241
authorization report.....	3358	mobilization, regs.....	5313
report of subcommittee.....	16190-191	officers, technical changes act, hearings.....	12275
publications, price list.....	17826	pay and retirement, reserve credit for service—	
transportation, general picture (address).....	7265	hearings.....	4637, 14549
USSR, atomic and anti-atomic defense, excerpts.....	852	law.....	14052
utilization of Government-owned plants and facilities, hearings.....	3320	reports.....	4588, 4606, 14504
see also Civilian defense.		register, Jan. 1, 1959.....	8101
<b>National Defense Resources Conference, general information.....</b>	<b>9155</b>	technicians, payment and accounting procedures, regs.....	3956
<b>National economy, see Economic conditions.</b>		your son and his military obligation, enlistment information.....	16944
<b>National Exhibition of Prints, held at Library of Congress, May 1-Sept. 1, 1959, catalog.....</b>	<b>8015</b>	see also Pay, allowances, etc.	
<b>National farm loan associations: change name—</b>		<b>National Guard Bureau:</b>	
hearings.....	8717, 8877	pamphlets.....	5312, 9401, 10507
law.....	14023	publications.....	5312
reports.....	7374, 8847	regulations.....	5313-15, 9399-9400
report, 1958.....	1610	report, 1958.....	9398
<b>National Fire Behavior Training School, Alexandria, La., 1959.....</b>	<b>16437</b>	<b>National health survey:</b>	
<b>National Fire Prevention Week, Oct. 4-10, 1959.....</b>	<b>13736</b>	health statistics.....	2111, 4021, 10567-568, 15168, 17829
<b>National Forest Reservation Commission, report, 1958.....</b>	<b>3341</b>	impairments by type, sex, age, statistics, 1957-58.....	10567
<b>National forests:</b>		<b>National Heart Institute:</b>	
conservation program.....	5552	cardiovascular research support.....	9403
fire report, 1958.....	12740	research studies, 1958.....	15093
general information.....	9417	<b>National housing act, see Housing—Mortgage Insurance.</b>	
long-range program, hearings.....	14327	<b>National housing inventory.....</b>	<b>4362-63, 5702-10</b>
program, estimates of work needed and costs by States.....	10179	<b>National income, see Income.</b>	
timber sales in 3 western regions, review.....	12548	<b>National industrial technical centers.....</b>	<b>16488</b>
vacation planning, Government publications, list.....	6903	<b>National Institute for International Health and Medical Research:</b>	
see also Timber—Wilderness areas—also names of forests.		establish—	
<b>National Fuel Policy Joint Committee, create, report.....</b>	<b>16117</b>	hearings.....	15949
<b>National Geographic Society: erect memorial for Richard E. Byrd in Arlington, Va.—</b>		report.....	7577
law.....	15655	<b>National Institute for International Medical Research, establish, hearings.....</b>	<b>7642</b>
report.....	16178	<b>National Institute of Dental Research, clinical studies and patient referral procedures.....</b>	<b>2061</b>
<b>National Guard:</b>		<b>National Institute of Mental Health, program, mental health project grants.....</b>	<b>6811</b>
Air, report, 1958.....	9398	<b>National Institutes of Health:</b>	
Army—		activities in field of gerontology, projects.....	10508
appropriations, 1959, hearings.....	5908	grants and awards, 1959.....	16947
enlisted personnel, administrative procedures, regs.....	1103	organizational directory.....	9472
enlisted personnel records, regs.....	6806	reference guide series.....	5318, 16948, 17777
excess personal property, reporting and disposal, regs.....	8100	research and training grants for studies on aging, review.....	5380
funds, financial administration, regs.....	6807	research grants and awards, 1959.....	15095
inactive, administration, regs.....	3955	research grants and fellowships awarded, 1958, supplement.....	8106
instructions for maintenance of technical service equipment and supplies, pamphlet.....	9401	scientific papers, bibliography.....	9472
mobilization procedures, regs.....	5313	see also Clinical Center, National Institutes of Health.	
morning report, regs.....	5315	<b>National labor relations act, see Industrial relations.</b>	
		<b>National Labor Relations Board:</b>	
		appropriations, 1960—	
		hearings.....	5913, 8884
		law.....	14013
		reports.....	7392, 9999



# JANUARY-DECEMBER

	Entry
<b>National Labor Relations Board—Con.</b>	
cases before Board, changing pattern (lecture)-----	9405
decisions and orders-----	3957, 8107, 16950
decisions, digest-----	6814, 13465, 17778
history and activities (addresses)-----	9406, 13464
nomination, Boyd Leedom, hearing-----	16217
nomination, Stuart Rothman hearing-----	8906
releases-----	2853, 11395
report, 1958-----	5319
rules and regulations relative to labor-management relations act, amendments-----	10511
statistical summary-----	2852, 11394
weekly summary of cases-----	2854, 11396
National League of Postmasters, elimination of pornographic and obscene material from mails as objective (address)-----	8177
<b>National Library of Medicine:</b>	
catalog, 1958-----	9328
library of Surgeon General's Office, index-catalogue-----	17781
services-----	2062
National Lime Association, safety competition awards, 1958-----	16698
National Little League Baseball Week, designating reports-----	7414, 8827
National Maritime Union, alliance with other transportation unions, threat to national security, report-----	7631
<b>National Medal of Science:</b>	
establish-----	
law-----	14062
report-----	14222
<b>National Mediation Board:</b>	
appropriations, 1960-----	5913, 8884
hearings-----	14013
law-----	7392, 9999
reports-----	8959
report, 1958-----	
National monuments and memorials: and related areas, public use-----	11399
code of Federal regulations-----	6155
publications, price list-----	1147
see also names of monuments or memorials.	
<b>National Museum:</b>	
bulletin-----	5325
proceedings-----	1108, 2063-64, 5326-27, 6816-17, 8109, 9408-10, 13468-469, 15096-98, 16953, 17782
title page, etc., v. 106-----	9409
title page, etc., v. 107-----	9410
report, 1958-----	
departmental edition-----	2065
document edition-----	1520
<b>National Office of Vital Statistics,</b> selected publications, list-----	15099
<b>National Olympic Week:</b>	
designation-----	
law-----	15715
reports-----	8694, 14545
<b>National organizations, see Organizations.</b>	
<b>National Outdoor Recreation Resources Review Commission, see Outdoor Recreation Resources Review Commission.</b>	
<b>National Park Service:</b>	
archeological programs, general information-----	13487
archeological research series-----	16964
areas administered by-----	
concessioners furnishing accommodations for public-----	13488
general information-----	6826
public use-----	2858, 11399
visitor accommodations furnished by concessioners-----	13494

	Entry
<b>National Park Service—Continued</b>	
guide leaflet-----	17784
historical handbook series-----	1111, 13490
laws relating to, 1957-58-----	16968
releases-----	2859, 11400
special program for school groups visiting Washington, D.C.-----	6825
<b>National parks:</b>	
and related areas, public use-----	11399
camping facilities-----	9414
code of Federal regulations-----	6155
concessioners furnishing accommodations for public-----	13488
general information-----	9417
mission 66 and Civil War battlefields (address)-----	6831
publications, price list-----	1147
vacation planning, Government publications, list-----	6903
visitor accommodations furnished by concessioners-----	13494
see also names of parks.	
<b>National plan for civil defense and defense mobilization-----</b>	<b>4867-70, 13874-877, 15509</b>
<b>National Plans Conference, report, 1958-----</b>	<b>1291</b>
<b>National Pony Express Centennial Association, Treasury Dept. to supply and sell commemorative medals, report-----</b>	<b>16076</b>
<b>National poultry improvement plan, see Chickens—Poultry—Turkeys.</b>	
<b>National Railroad Adjustment Board:</b>	
appropriations, 1960, hearings-----	5913
awards-----	5335, 5300
report, 1958-----	6837, 8132, 9422, 13496
<b>National Reactor Testing Station, shipping of radioactive material-----</b>	<b>13815</b>
<b>National Reclamation Association, 5th annual conference of Senate Interior and Insular Affairs Committee with directors, proceedings-----</b>	<b>12542</b>
<b>National Science Foundation:</b>	
act of 1950, amend-----	
hearings-----	17340-342
law-----	14080
reports-----	12235, 16054
appropriations, 1960, hearings-----	5914
current projects on economic and other impacts of scientific research and development, bibliography-----	17788
current research and development in scientific documentation-----	8133, 17789
<b>Government sponsored and supported research, social sciences and interdisciplinary areas, semiannual report-----</b>	<b>2861</b>
<b>International Geophysical Year activities, report, hearings-----</b>	<b>5915</b>
<b>patent practices, preliminary report-----</b>	<b>8394</b>
<b>publications-----</b>	<b>5337</b>
<b>releases-----</b>	<b>2862, 11402</b>
<b>report, 1958-----</b>	<b>3976</b>
<b>research and development, reviews of data-----</b>	<b>2074, 6840, 15120, 16971</b>
<b>science education programs, general information-----</b>	<b>6839</b>
<b>science faculty fellowship program, information-----</b>	<b>1116</b>
<b>scientific research and development at colleges and universities, expenditures and manpower, 1953-54 survey-----</b>	<b>6842</b>
<b>senior postdoctoral fellowship program, information-----</b>	<b>1117</b>

# INDEX, 1959

Entry	Entry
National Science Foundation—Con. summer science training program in cooperation with colleges, etc., for high-ability second- ary school students, announce- ment..... 6838	National System of Interstate High- ways—Continued
transfer, hearings..... 7618, 10044	cost reimbursement to States, Sec- retary of Commerce propo- sals..... 7485
undergraduate research programs, 1960-61, announcement and suggestions..... 16970	estimate of construction costs, ex- tend, hearings..... 9021
weather modification program, hearing..... 15066	National Training School for Boys, relocation, report..... 12432
National search and rescue manual..... 17305	National turkey improvement plan, see Turkey.
National securities exchanges: credit by brokers, dealers, and mem- bers, regulations..... 9009	National union catalog, Library of Congress..... 2773, 11313, 14979
stocks registered, loans by banks for purchasing or carrying, regulation..... 3479, 14044	National water quality network, an- nual compilation of data, Oct. 1, 1957-Sept. 30, 1958..... 9471
National security: act of 1954, amend, hearing..... 7643	National Water Resources, Select Committee on, Senate: appointment of James E. Murray as member ex officio, report..... 8821
annuity rights denial in certain cases— hearings..... 5933, 7643	establish— conference memorandum..... 12544
reports..... 5889, 5896, 6013	hearing..... 6063
background of U.S. military policy— communist controls on religious ac- tivity, hearing..... 7634	reports..... 6014, 7645
defense contractors access to clas- sified information, Secretary of Defense to prescribe standards, report..... 15877	National Wilderness Preservation Council, create, hearings..... 7622, 12546
internal security act, etc., adminis- tration, investigation— expenses, report..... 16087	National Wilderness Preservation System, establish, hearings..... 7622, 12546
extension, report..... 3566	National Wildlife Disease Laboratory, establish, report..... 14489
hearings..... 6072,	National Zoological Park: police, salary increases, amend act— law..... 15743
7634-35, 8903, 12557, 16210, 16212-213.	reports..... 14272, 16090
staff study..... 12556	Nationalism, local, in Communist China, selected articles..... 9209
status of Hungarian refugee pro- gram..... 12559	Nationalities research (Chinese peri- odical): articles..... 12888, 12892, 14804, 14817, 17051
study report..... 10048	Nationality: code of Federal regulations..... 4821
safeguarding classified informa- tion, industrial security man- ual..... 353, 3406, 4762, 16239	immigration and nationality act, amend— law..... 12015
threat from issuance of passports to communists, etc., hearings..... 12318	reports..... 8602, 12461
threat of alliance of racketeer and communist dominated labor unions, report..... 7631	immigration and nationality act with amendments, text..... 1535
total defense achieved by support- ing military might with effec- tive and strong non-military defense (address)..... 7234	laws, administrative decisions..... 9267
see also industrial security—National defense.	Nation's five-foot shelf (census data)..... 9726
National Security Agency: administrative authorities— law..... 8521	Native Brotherhood of British Co- lumbia: origin, etc.— departmental edition..... 157
reports..... 5870, 7588	document edition..... 287
positions, exempt from classifica- tion act— law..... 8521	Native brotherhoods, modern inter- tribal organizations on North- west Coast..... 157, 287
reports..... 5870, 7588	NATO, see North Atlantic Treaty Or- ganization.
National service life insurance, see Life Insurance.	Natural convection inside flat rotat- ing container, errata..... 5257
National Shipping Authority: current regulations index..... 6130	Natural gas, see Gas.
NSA order..... 11323	Natural gasoline, see Gasoline.
National Society of Daughters of American Revolution, report, 1957..... 12332	Natural geographic data of north China..... 1838, 5052
National solidarity (Chinese period- ical): articles..... 9191, 9219, 9224, 9243, 10342, 12901, 17561	Natural radioactive disequilibrium in uranium series..... 4927
National Stay-in-School Campaign: memo to employers..... 16654	Natural resources: conservation— activities for young people..... 9094
releases..... 2729	addresses, etc..... 116, 6635, 8014
National survival, see Survival.	conservation bulletin..... 6320
National System of Interstate High- ways: construction rights-of-way, prog- ress report..... 4455	forest, etc., highlights in his- tory..... 6320
	local-State-Federal program, New Mexico (remarks)..... 6636
	notes, fishing for food..... 10124
	relation of watershed manage- ment (remarks)..... 17671

# JANUARY-DECEMBER

	Entry
<b>Natural resources—Continued</b>	
conservation, etc., by youth employment—	
hearings.....	8907
report.....	12454
views.....	12454
development, relation of watershed development (paper).....	13594
exploration and conservation (USSR periodical), abstracts.....	7174, 10796
Indian and Abrams Creeks, stream reclamation program.....	12691
land use, planning, conservation in Washington metropolitan area, Government agencies concerned, staff study.....	3399
program, technical cooperation, agreement with Brazil.....	4079
sound use, Interior Dept., report, 1958.....	1725, 6321
see also Land.	
Natural science, see Science.	
Naturalists Great Smoky Mountains National Park, naturalist program.....	6833, 9418, 13491-492, 15115
see also Moscow Society of Naturalists.	
<b>Naturalization:</b>	
investigation—	
authorization, report.....	3367
expenses, report.....	12510
report on findings.....	4723
our constitution and Government, lessons for citizenship candidates, Federal textbook.....	6315
requirements, brief summary of general provisions.....	3618
special benefits for veterans, etc.—	4943
see also Citizenship—Nationality.	
Nature of gravitational and magnetic anomalies in central and eastern regions of Russian platform, USSR.....	3696
<b>Nautical almanacs:</b>	
1960.....	8134
American ephemeris and nautical almanac, 1960.....	2077
Nautical charts, see Maps and charts.	
Nautical craft, see Craft (nautical).	
Navajo County, Ariz., land conveyance.....	8797, 12077, 13933
Navajo Indian project:	
construct—	
hearing.....	7623
report.....	6024
Navajo Indian Reservation, Black Mesa, Ariz., uranium reconnaissance.....	9662
Navajo language, Navajo-English dictionary.....	531
Naval Academy, Annapolis:	
admission, etc., regulations.....	15125
Belgium citizens, instruction—	
law.....	14038
reports.....	12240, 12448
catalogue, 1959-60.....	13502
register, 1958-59.....	3978
Naval Air Station, Corpus Christi, overhaul and repair department, closing investigation, report.....	16191
Naval Air Station, Pensacola, naval aviation cadet training.....	15124
Naval airborne ordnance.....	6850
Naval Ammunition Depot, Hingham, closing, investigation, report.....	16190
Naval architects, career opportunities, Maritime Administration.....	6333
Naval art and science:	
chemical combat agents use at sea and measures for protection, Yugoslavia study.....	8711

	Entry
<b>Naval art and science—Continued</b>	
naval research logistics quarterly.....	2868, 11406
Naval aviation, see Aeronautics.	
Naval aviators, see Aviators.	
Naval bases, Spanish, inspection, report.....	14330
Naval construction, see Installations (military).	
Naval data handling system pickoff display converter.....	5349
Naval education:	
admiral by 1992, 4 doors to commission.....	8135
naval training bulletin.....	2865, 11405
Navy training courses.....	1121-23, 2078, 2080, 3980-81, 3983, 5338, 6844-45, 6847-51, 6853-54, 8139, 9425-29, 9432, 13502, 15121-122, 16972-973, 16976, 16980, 17794-795, 17797-798.
training publications for advancement in rating, list.....	9433
Naval Gun Factory, technical report.....	4000
Naval history, historical records in Washington, D.C., area guide.....	1120
Naval installations, see Installations (military).	
Naval Medical Research Laboratory:	
reports.....	10418-420
research summaries, reported on during 1958.....	10418
Naval missions, see Military missions.	
Naval officers, see Navy.	
Naval oil shale reserves, authority of Secretary of Navy to lease, opinion of Attorney General.....	7965
Naval ordinance and gunnery.....	6831
Naval Personnel Bureau, information bulletin.....	2863, 11403
Naval petroleum reserves:	
northern Alaska, exploration, 1944-53—	
regional studies (series).....	7851, 9120
subsurface geology and engineering data (series).....	1714, 3604, 6291-93, 7852
Naval Postgraduate School, Monterey, compensation of academic dean, Secretary of Navy to prescribe, report.....	7401
Naval reactors physics handbook.....	8421
Naval Research Laboratory:	
atmospheric radioactivity studies.....	5350
bibliography series.....	9434
drop-weight test, normalization procedures.....	3989
hypervelocity laboratory facilities and instrumentation.....	8150
memorandum report series.....	9435
progress, report, monthly.....	2867, 11408
reactor code for electronic digital computer NAREC.....	13515
report series.....	1124-30, 2081-60, 3984-91, 5340-51, 6856-63, 8142-55, 10532-542, 13504-520, 15127-131, 16982-993, 17800-810.
bibliography no. 1000-5000.....	13504
research reactor—	
core loadings compilation.....	2092
fast-neutron beam currents, measurement.....	3987
neutron flux measurements and power determination.....	5340
science education program, 1959-60.....	16094
Naval research logistics quarterly.....	2866, 11406
Naval Research Office:	
report, ACR series.....	13521
scientific information and activities.....	9423
technical report.....	15132
Naval research reviews.....	2868, 11407

# INDEX, 1959

	Entry
Naval Reserve:	
flying program-----	5
officers, active duty, register-----	
departmental edition-----	8481
document edition-----	8532
officers school, catalog-----	10529
see also Reserve components of Armed Forces.	
Naval Reserve Officers Training Corps:	
members, make eligible for burial in national cemeteries-----	
law-----	14093
reports-----	9982, 14310
Naval reservist (periodical)-----	2864, 11404
Naval service, see Navy.	
Naval stores:	
report, annual, 1958-59-----	7025
report, monthly-----	2252, 10704
Naval supplies, see Military supplies.	
Naval training, see Naval education.	
Naval vessels, see Destroyers (warships) — Ships — Submarine boats — Warships.	
Naval Weapons Bureau:	
establish-----	
hearings-----	9899, 12523
law-----	14029
reports-----	9856, 12136, 12480
Navigation:	
aids, Coast Guard lists-----	
Atlantic Coast-----	
complete-----	5758
local-----	5760-62, 5763-64
Great Lakes-----	4401
Mississippi River system-----	5759
Pacific Coast-----	
complete-----	4399
local-----	4402-6
aids, planning and operation, Air Force manual, changes-----	3104, 4222
American practical navigator-----	527
charts, Tennessee River, Index, National atlas sheet-----	13646
Communist China's plans-----	10546
high seas and inland waters, international rules and regulations-----	9744
jet, charts, Index, national atlas sheet-----	11851
mathematical analysis, great circle calculations by digital computer-----	16984
merchant ship safety, human factors, problems affecting-----	10416
navigable waters, code of Federal regulations, supp-----	6154
notice to mariners-----	2669, 11208
Great Lakes, etc-----	2414, 10945
Panama Canal and adjacent waters, rules and regulations-----	1458, 8443, 17277
radio aids, 1958-----	3615-16
radio aids, 1959-----	6313, 14778
rendezvous of satellites in circumplanetary orbits-----	17743
rules of road-----	
Great Lakes-----	9743
western rivers-----	9745
sailing charts, Index, national atlas sheet-----	11859
TVA river traffic and industrial growth-----	10624
see also Air navigation.	
Navigation locks, see Locks (hydraulic engineering).	
Navigator (periodical)-----	10755
NavOrd reports-----	2097, 3996-97, 5361, 6876, 10549-550, 13525A-527, 17004
Navy:	
admiral by 1992, 4 doors to commission-----	8135
awards manual-----	6852
baking handbook-----	5437

	Entry
Navy—Continued	
briefing sheet for principals and counselors of high school students-----	8140
career, occupational handbook, manual for civilian guidance counselors, etc-----	16978
chaplain, no greater service-----	3982
chaplains' manual-----	17796
comptroller manual-----	1132-34, 2092-94, 3993, 5354-57, 6866-67, 8156-57, 9437-38, 10545, 13522-524, 16998-17001, 17811-814.
contributions, research, etc., in space age, Western Space Age Conference, March 5-7, 1959-----	5358
current procurement directives-----	11409
daily ration, include oleomargarine, report-----	16123
directives system, consolidated subject index-----	8158
diving manual-----	17072
enlisted personnel, classification codes manual-----	15123
flight planning document-----	
inserts-----	1361, 13773, 15355-356
revisions-----	1362, 3120, 4266-68, 7116-20, 8366-68, 9640, 11679-82, 13774-776, 15353-354, 17229-231.
flight surgeon, who, what, why, where, how, when-----	6643
leadership principles and problems-----	16975
management review-----	2869, 11410
marine climatic atlas of world, south Atlantic Ocean-----	3004
medicine, statistics, monthly highlights-----	2782, 11325
menu planning-----	6971
microseismic program, terminal report-----	9742
mission agreement with-----	
Colombia-----	9517
Ecuador-----	15206
Haiti-----	4096
naval aviation news-----	2188, 10645
nominations, 85th Cong. 2d sess., Index-----	9936
officers-----	
limited duty, qualifications manual-----	5339
promotions, improve opportunity-----	
hearings-----	4633, 10030
law-----	14010
reports-----	4581, 4607, 12478
registers-----	
departmental edition-----	9431
document edition-----	8532
writing guide-----	6855
ordnance shipping handbook-----	6677
personnel-----	
household effects, temporary storage in commercial facilities, expenses relief, report-----	14229
relieve from liability for transportation requests erroneously furnished-----	
law-----	8512
reports-----	5836, 16043
prime contractors, selling to-----	6869
procurement directives-----	15142
revisions-----	2870, 11411
procurement, Pacific Northwest exhibit of business opportunities and technology-----	10546
public information manual, changes-----	6870, 17002
publications, price list-----	5379
radio facility charts-----	2307-12, 10757, 10760-761
reactor program, review, hearings-----	12030
regulations-----	5853



# JANUARY-DECEMBER

	Entry		Entry
<b>Navy—Continued</b>		<b>Nebraska—Continued</b>	
ship's serviceman 1 and chief, training courses.....	8141	census of governments, 1957, State bulletin.....	11789
ship's serviceman 3 and 2, training course.....	3983	climatological data..... 2993,	11546
ship's serviceman barber handbook.....	10531	credit control in retail farm supply cooperatives.....	7684
shore establishment, BuDocks technical digest..... 3000,	11553	electric rate book.....	14633
Index, Mar. 1949-Dec. 1958.....	9564	Indians on Federal reservations, general information, digest.....	13563
shore establishments, fire prevention and fire protection.....	13669	Northeastern, Pierre shale, uranium content.....	10190
shore facilities, personnel, storage etc.....	15126	precipitation data, hourly... 2996,	11549
synchros, description and operation.....	3998	southern, loess-mantled slopes, origin of steps.....	513
training manuals and correspondence courses, list.....	6846	Nebraska Mid-State Reclamation District, Federal cooperation in Mid-State project construction.....	14340
training publications for advancement in rating, list.....	9433	Nebulae, IC 405 and 410 and problem of nature of their cometiclike inclusions, polarimetric study.....	13762
travel instructions.....	15143	Neches, Trinity, etc., River Basins, United States Study Commission on, see United States Study Commission on Neches, Trinity, Brazos, Colorado, Guadalupe-San Antonio, Nueces, and San Jacinto River Basins and intervening areas.	
weather station index, change.....	17503	Nectarines, production, use, value, 1957-58.....	9582
women, opportunities to train and serve.....	16974	Needle blight, see Elytoderma needle blight.	
see also Armed Forces—Aviation boatswain's mates—Boatswains' mates—Uniforms		Needle droop of red pine.....	3569
<b>Navy Department:</b>		Neely, Matthew M., memorial services.....	276
accounting, modified system.....	3992	Negla, Erminio, relief... 4690, 8589,	11900
appropriations, 1960, military construction, hearings.....	9895	Negroes:	
Assistant Secretary, nomination of—		economic situation in U.S.....	16666
Taylor, Philip B., hearings.....	7606	Intensification of problem in United States.....	6585
Wakell, J. H., jr., hearing.....	12524	public housing open occupancy policies.....	17059
disestablishment of naval ordnance plant at Pocatello, Idaho, hearing.....	6047	Negros Islands, east coast, sailing directions.....	17499
employees, quarters allowances, validate—		Neimanis, Viktors, relief... 5948, 7342,	9759
law.....	7314	NEL, see Naval Electronics Laboratory.	
reports.....	5835, 7552	Nelson, Paul, relief.....	4507
employees wages, authority of Secretary to establish, repeal, hearing.....	4638	Nelson, Steve, subversion case, hearings.....	8903, 16212
financial report, 1958.....	2091	Nemaha County, Kans., geology and construction material resources.....	14746
forms management, guide.....	1181	Nematocides:	
housing facility at Yorktown, Va., transfer to Coast Guard, reports.....	12171, 12451	include in Federal insecticide, fungicide, and rodenticide act—	
organization committee, report.....	6868	hearing.....	12276
prescribe compensation of academic dean of Naval Postgraduate School, report.....	7401	law.....	14002
refusals of information to Congress and GAO, hearings.....	9909	reports.....	9854, 12438
semiannual report.....	7662	Nematodes, see Nematoid worms.	
Solano County, Calif., real property exchange—		Nematoid worms, Heterodera glycines and its injury to soybean plants in Japan.....	13716
law.....	14016	Nene	
reports.....	8654, 12449	reese, Hawaiian, research, propagation, and management program to effect restoration, hearings.....	317
specifications, see in main alphabet, Military supplies.		Neodiprion taedae linearis, see Flies.	
Navy Electronics Laboratory, report.....	13574	Neon isotopes, Ne <sup>24</sup> , gamma radiation, thesis.....	11722
Navy Nurse Corps, see Nurse Corps, Navy.		Neoplasms, see Tumors.	
Navy officers, see Navy.		Nepheline syenite, minerals yearbook chapter.....	14994
Navy training courses, see Naval education.		Nephelines:	
Navy wings of gold.....	15124	aluminum extraction from nepheline, Lenin prize winners.....	1783
Navy yards:		processing for alumina recovery, USSR study.....	12944
increased forces prior to national elections, repeal restriction—		Nephritis:	
law.....	14004	acute and with edema, death rates by age, color, and sex, 1949-51.....	13482
reports.....	4601, 12470		
NBS, see National Bureau of Standards.			
NCO, career airman.....	13747		
Near East, see East (Near East).			
Nebraska:			
Big Blue River water apportionment, compact with Kansas, negotiation, consent of Congress, report.....	16149		

# INDEX, 1959

	Entry		Entry
Nephritis—Continued		Nervous system—Continued	
chronic, death rates by age, color,		peripheral—continued	
and sex, 1949-51.....	13475	changes in dogs, in acute radia-	
Nerves:		tion sickness caused by intra-	
demyelination of fibers produced		venous administration of radio-	
by total action of ionizing		active strontium, USSR study.....	14926
radiation on animal-organisms,		relation of consciousness to inter-	
USSR study.....	14925	nal activity, USSR study.....	7952
ionic mechanisms of basic nerve		research on neurological disorders,	
processes, conclusions, USSR		highlights of progress.....	17773
study.....	16554	role in regulating mechanism of	
living and survived neurons and		blood coagulation.....	12947
interneuronal connections, data		signal systems in persons of differ-	
on structure, USSR study.....	17657	ent temperaments, ink blot	
Nervous system:		method use in determining	
activity, effect of removal of adre-		characteristics, USSR study.....	14958
nal medulla, USSR studies.....	1810	splanchnic nerve, influences on	
alpha rhythm suppression reac-		secretory functions of adrenal	
tions, dynamics of differentia-		glands in newborn animals,	
tion, USSR experimental ma-		USSR study.....	16619
terial.....	1772	typological characteristics in chil-	
animals, behavior and reaction, as-		dren, experimental study in	
phyxiation effects.....	841	play material, USSR study.....	14960
animals, effect of ionizing radia-		see also Reflexes.	
tion, USSR study.....	12986	Netherlands:	
effect of penetrating radiation		atomic energy, cooperation for	
(USSR).....	634	mutual defense purposes	
higher branches, results of con-		agreement—	
ference on effect of ionizing		hearings.....	12026
radiation, USSR study.....	10383	reports.....	12157, 12170, 12433
higher division, conference on		text.....	17108
effect of ionizing radiation,		economic developments, 1958.....	7778
USSR studies.....	5107	exports and imports, licensing and	
in vertebrates, mechanisms of		exchange controls.....	4879
physiologic - morphological		ocean weather ships on North At-	
evolution, USSR study.....	17632	lantic route, agreement.....	2152
influence of ionizing radiation		patent and trademark regulations.....	10155
(conference, USSR).....	6457	wage controls.....	884
nature of process of inhibition.....	10260	Nethery, Rachel, relief.....	4498, 15575, 16036
new drug for treatment of		Networks, see Electric networks.	
diseases, USSR study.....	10334	Neuritis, femoral nerve, radioactive	
role in mechanism of anaphy-		genesis, USSR study.....	6577
laxis, USSR studies.....	5128	Neurological diseases, see Nervous	
stimulation of vagus nerves to		system.	
induce stable hypertension in		Neurology, and cybernetics, USSR	
dogs, USSR study.....	5120	study.....	14930
topography of proteins, USSR		see also Nervous system.	
study.....	14922	Neurons, see Nerves.	
vascular lesions effect, death		Neurophysiology:	
rates by age, color, sex, U.S.,		modern, success in analysis of prob-	
1949-51.....	8114	lems of higher nervous activ-	
higher activity—		ity, USSR study.....	14874
clinical problems of physiology		research at Military-Medical Acad-	
and pathology, status of and		emy imeni S. M. Kirov,	
prospects for study in USSR.....	7956	articles.....	6618
functional changes of dogs dur-		Neurosurgery, see Surgery.	
ing long-term exposure to		Neutron spectrometers, see Spectro-	
small doses of ionizing radia-		meters.	
tion, USSR study.....	14855	Neutrons:	
success of modern neurophysi-		cross section measurements of	
ology in analysis of problems,		tellurium.....	17250
USSR study.....	14874	fast—	
human and animals, physiology,		beam current, measurement in	
table of contents.....	3715	NRL research reactor.....	3987
human beings, effect of ionizing		reactions from N-14 and N-15.....	3158
radiation, USSR study.....	14965	flux—	
interrelation between cerebral cor-		experimental installation for ir-	
tex and internal organs.....	630	radiation of animals, USSR.....	1929
ionizing radiation in antenatal		measurements and power deter-	
period of development, electro-		mination.....	5340
encephalographic analysis of		numerical method for obtaining	
remote sequelae.....	13240	monoenergetic, distributions	
morphological structure of intero-		and transmissions in multiple-	
ceptive analyzer and peculiar-		region slabs.....	5291
ities of its work, USSR study.....	14913	irradiation effects on microwave	
neurosurgery in World War II.....	1373	properties of ferrites.....	13516
occupational diseases in foundry		measurement of soil moisture, rec-	
cleaners, data on clinical symp-		ommendations and equipment.....	43
toms, pathogenesis, and pre-		polarization, from reactions Li <sup>7</sup>	
vention.....	12954	(p,n)Be <sup>7</sup> and D(d,n)He <sup>4</sup> .....	15398
peripheral—		resonances in U-238, thesis.....	15399
animals, morphological changes		scattering, low energy, by non	
after acute radiation sickness,		spherical nuclei.....	3156
USSR study.....	14857	shielding studies, dose attenuation	
		by soils and concrete.....	9657
		slow resonances in Ag, Ta, and Cd.....	17249

# JANUARY-DECEMBER

	Entry		Entry
Nevada:		New Mexico:	
celebration of centennial of silver discovery in U.S., commemorative medal—		agricultural conservation hand-book	1249
law—	8514	census of governments, 1957, State bulletin—	11792
report—	15771	climatological data—	2993, 11546
census of governments, 1957, State bulletin—	11790	forest insect conditions, 1958—	3582
climatological data—	2993, 11546	minerals industry, minerals year-book chapter—	933, 17697
electric rate book—	10103	natural resources, local-State-Federal conservation program (remarks)—	6636
iron ore, reducing phosphorus content, experiments—	15035	precipitation data, hourly—	2996, 11549
mail routes, schedule—	15151	New Mexico Boys' Ranch surplus property donation, hearings—	17353
manganese deposits, reconnaissance—	5208	New Orleans, La.:	
minerals industry, minerals year-book chapter—	931, 17695	Battle of New Orleans—	6828
postal service scheme—	17023	cotton exchange, futures trading and open contracts in cotton and cottonseed oil—	2427, 10960
precipitation data, hourly—	2996, 11549	Federal-State-local relations hearings—	3327
snow surveys and water supply forecasts—	11486	occupational wage survey—	
sulfur industry—	16694	departmental edition—	9287
Nevada State Dental Society, budget payment plan for dental care—	5381	document edition—	8531
New Brunswick Laboratory, research progress report, July-Dec. 1958—	11729	population, special census—	5681
New construction (Chinese periodical):		New Richmond locks and dam: rename Captain Anthony Meldahl locks and dam—	
articles—	9241	law—	11987
New England:		reports—	7422, 12411
climatological data—	2993, 11546	New York Central RR, accidents—	9153, 12799
dairy industry, effect milk concentrates—	4150	New York, Chicago and St. Louis R.R. accident—	548
fisheries subsidies, hearings—	318	New York City:	
forest tree seed crop, report, 1958—	7832	and nearby areas, climatic guide—	4122
groundfish industry, market development plan—	3493	carnation prices and receipts, seasonal variation—	11567
northern hardwoods, management guide—	6263	clerical salaries since 1948—	8006
poultry, assembling—	9569	cotton exchange, futures trading and open contracts in cotton, wool, and wool tops—	2428, 10961
precipitation data, hourly—	2996, 11549	electric facilities of area, map—	16335
yellowtail flounder decline—	7745	floral marketing by wholesale growers—	7061
New era (periodical)—	11431	mercantile exchange, futures trading and open contracts in potatoes, onions, eggs, butter, and rice—	2430, 10963
New Guinea:		occupational wage survey—	
parcel post exchange, agreement with Australia—	1200	departmental edition—	13284
sailing directions, change—	4941	document edition—	12034
New Hampshire:		produce exchange, futures trading and open contracts in cottonseed oil, soybean oil, and talow—	2428, 10961
agricultural conservation hand-book—	13	St. Ann's Churchyard, designate as national historic site, report—	12234
census of governments, 1957, State bulletin—	11791	standard metropolitan area, housing inventory characteristics, 1956—	5708
electric rate book—	8997	world's fair, 1964, invite foreign countries to participate, report—	15873
mineral industry, minerals year-book chapter—	15006	New York, New Haven & Hartford R.R., accident—	6339
New Haven, Conn., aircraft accident—	245A	New York-New Jersey Transportation Agency:	
New Jersey:		compact creating, consent of Congress—	
census of governments, 1957, State bulletin—	13840	law—	15667
climatological data—	2993, 11546	reports—	12126, 16132
employment and earnings statistics, guide—	7982	New York State:	
landings, fishery products—	2621, 11159	census of governments, 1957, State bulletin—	11793
mineral industry, minerals year-book chapters—	932, 17696	climatological data—	2993, 11546
New York City metropolitan area, housing inventory characteristics, 1956—	5708	electric rate book—	12652
oyster industry, assistance to, report—	16169	employment and earnings statistics, guide—	7982
precipitation data, hourly—	2996, 11549	income tax, withholding from compensation of Federal employees, agreement—	6983
southern, bottomland hardwoods, natural regeneration—	17473	landings, fishery products—	2622, 9033, 11160
southern pine region, deer populations and forestry practices, relationships—	1689		
southern, pitch pine seedling, progress report—	6262		
timber resources—	501		
New Jersey-New York Transportation Agency, see New York-New Jersey Transportation Agency.			
New Karamay (oil region)—	552		

Do not order from index; see indicated entry

Page 353

# INDEX, 1959

	Entry		Entry
New York State—Continued		Next 10 years in space :	
migratory farmworkers, changes,		print additional copies, report----	7366
1953, 1957 and 1958-----	15283	text-----	7332
mineral occurrences-----	16459	Nez Perce Indians, donate land to,	
precipitation data, hourly-----	2996, 11549	report-----	16112
recession relation to TDI claims-----	10083	NG, <i>see</i> National Guard.	
southern district court, records pre-		NGF, <i>see</i> Naval Gun Factory.	
liminary inventory-----	16932	Nicaragua :	
New Zealand :		Army and Air Force mission,	
economic developments, 1958-----	7792	agreement-----	17123
exports and imports, licensing and		exports and imports, licensing and	
exchange controls-----	14700	exchange controls-----	16421
facilities for United States opera-		guaranty of private investments,	
tions in Antarctica, agree- ment-----	4093	agreement-----	10602
foreign trade, 1956-57-----	6230	import tariff system-----	12711
mining and transporting coal by		industrial encouragement law-----	4873
hydraulic methods, literature		passport visas, agreement-----	17873
survey-----	13316	Nicar, Cuba :	
Newark, N.J. :		nickel ores, basic studies including	
airfield, mail handling activities,		differential thermal analysis	
transfer to city post office, re- port-----	16221	in controlled atmospheres-----	13375
occupational wage survey-----		nickel plant, disposal problems-----	12182
departmental edition-----	6633	report-----	12182
document edition-----	5704	views-----	
Newborn, <i>see</i> Infants.		plant products, conversion of nickel	
Newcastle disease, poultry, how to		oxide to nickel metal-----	8048
control-----	7053	Nickel :	
Newfoundland, sailing directions-----	6307	alloys, advanced-temperature, in-	
News and views of this kiln drying		vestigation-----	9368
business-----	483	alloys, nickel-tin plate, codeposi-	
News broadcasts, <i>see</i> Radio jour-		tion from organic and mixed	
nalism.		aqueous-organic solvents-----	10457
News bulletin, USDA employee-----	2286, 10739	continuous identification marking,	
News digests :		nickel and alloys, Federal	
Federal Power Commission-----	2554, 11092	standard-----	12663
Securities and Exchange Commis-		contract obligations of U.S. Govt.,	
sion-----	2928, 11472	investigation, hearings-----	12291
News features, Civil and Defense		extractive metallurgy, 1900-28,	
Mobilization Office-----	10922	bibliography-----	5188
News features, science and tech-		industry, midyear review and out-	
nology-----	2420	look for 1959-----	9696
News for farmer cooperatives-----	2509, 11040	minerals yearbook chapter-----	15028
index, v. 24, Apr. 1957-Mar. 1958-----	397	monthly report-----	2825, 11367
reprints-----	397-398, 3435,	Nicar, Cuba—	
6114-15, 7686, 8978-80, 10094,		ores, basic studies including dif-	
12628, 14610, 16279-280.		ferential thermal analysis in	
News letters :		controlled atmospheres-----	13375
medical news letter-----	2781, 11324	plant disposal problems-----	12182
index, v. 32-----	5184	report-----	12182
President's Committee on Govern-		views-----	
ment Contracts-----	2884, 11424	plant products, metal, produc-	
technical reports-----	2341, 10869	tion from nickel oxide-----	8048
United States National Commis-		production, etc., 1958-----	10433
sion for UNESCO-----	2956, 11504	secondary, production, etc., 1958-----	10444
News releases, <i>see</i> names of depart-		sodium hydroxide-nickel system,	
ments, etc., issuing releases.		mechanism of thermal gradient	
News summary, Federal Trade Com-		mass transfer-----	6681
mission-----	2601, 11139	solid solubilities in beryllium, anal-	
News tips on regulatory marketing		ysis of concentration gra-	
programs-----	9567	dients-----	1388
Newsletters <i>see</i> News letters.		stratospheric cosmic dust, obser-	
Newsnotes on education around		vations-----	11671
world-----	2495, 11026	Nickel oxide, Nicar, Cuba, plant	
Newsome, Oliver O., relief-----	4522, 5980, 7289	products, conversion to nickel	
Newspaper and Mail Deliverers Union		metal-----	8048
of New York, improper activi-		Nicolai, Adeodato F. P., relief-----	8785A, 12922
ties investigation, hearings-----	10046	Nicometi, Martha, relief-----	4501
Newspapers :		Niederdollendorf, Germany, terrain	
on microfilm, list, supplement-----	16677	representation, 1958 seminary	
publishing industry, outlook for		held by Practical Cartography-	
1959 and review of 1958-----	1436	Working Group, report-----	3702
<i>see also</i> Press.		Nigeria, official publications, 1869-	
Newspictures (civil defense)-----	2394, 10924	1959, guide-----	16678
Newsprint, <i>see</i> Paper.		Night vision devices, <i>see</i> Infrared	
Newton County, Mo., Racine-Spurgeon		rays.	
area, electrical resistivity sur-		Night work, <i>see</i> Hours of labor.	
veys for zinc-lead deposits-----	17706	Nightwear, knit, facts for Indus-	
		try-----	2372, 10903
		NIH, <i>see</i> National Institutes of	
		Health.	



	Entry		Entry
Nike-Cajun (CAN) rocket, <i>see</i> Rockets.		Noise—Continued	
Niles, Ill., population, special census.	11808	aircraft—continued	
NIMH, <i>see</i> National Institute of Mental Health.		shock-wave, from airplanes in level flight at Mach numbers to 1.4 and altitudes to 45,000 feet	16888
Nimylowycz, Jurij A., relief	7528, 8608, 11913	supersonic, shock-wave problem in steady flight	6777
1939-1959, Navy production frontiers, Pacific Northwest exhibit of business opportunities	10546	survey of transonic turbine driven propeller under static conditions	8084
Niobium, <i>see</i> Columbium.		turbojet, stresses in simple panels	8063
Niobrara River, lower basin, ground-water resources	7860	beam-riding guidance system, effects of target and missile characteristics on minimum miss distance	6756
Nishimoto, Asae, relief	5969, 8605, 11918	characteristics of large-panel houses, USSR study	12953
Nitrates, rare earth, relative apparent molal heat contents	1385	control problems and programs of small manufacturers	15189
Nitric acid, propellants, ignition lag of self-igniting fuel, NACA research program summary	1018	effect on hearing of workers in radar stations, USSR study	12929
Nitriding, <i>see</i> Casehardening.		hazards, controlling	14970
Nitrocompounds, mass spectra study	5361	intensity discrimination for narrow bandwidths at various pulse lengths	2083
Nitrogen:		lead sulfide photoresistors, investigation	13757
adsorbed, effect on thermionic emission, properties of lanthanum hexaboride	6760	pulse, protection from, in apparatus for recording meteor activity, USSR study	5139
compounds:		random and discrete, acoustic fatigue characteristics of exposed aluminum panels	13439
minerals yearbook chapter	15029	rocket engines, surveys for range of nozzle exit pressures	15076
oxygenated, mass spectra study	5361	<i>see also</i> Radar.	
ground-state atoms and molecules, interactions	8082	Nolen, W. A., conveyance of property to	12114, 14415, 15568
metabolism, certain features of chemical integration of processes, USSR study	17651	Nomenclature, <i>see</i> subjects.	
metabolism, effect of small doses of radioactive phosphorus, USSR studies	6446	Nominations:	
oxygen mixtures, approximate composition and thermodynamic properties	13440	Civil Aeronautics Administration, etc., hearings	333
Nitrogen isotopes, N-14 and N-15, reactions which produce fast neutrons	3158	civilian, 85th Cong. 2d sess.	12324
Nitrogen tetroxide, hydrazine-nitrogen tetroxide in rocket chambers	17754	<i>see also</i> names of persons.	
Nitto Shosen Co., Ltd., relief	14176	Nomography (mathematics):	
NLRB, <i>see</i> National Labor Relations Board.		alignment charts for shape parameters of atmospheric diffusion and deposition patterns	189
NMB, <i>see</i> National Mediation Board.		nomogram for determining divergence and vortex, USSR	844
NMU, <i>see</i> National Maritime Union.		Nonagricultural employment, <i>see</i> Employment.	
No greater service (Navy chaplain)	3982	Non-air carrier accidents, <i>see</i> Aircraft accidents.	
Noble fir, <i>see</i> Fir.		Noncash items collection, regulation	3474, 14639
Nodon (periodical):		Noncommissioned officers, <i>see</i> Air Force—Army.	
Korean, on questions of labor and wages, USSR	578	Nonfarm housing starts 1889-1958	14111, 14974
Noel, Lucie, <i>see</i> Leon, Elizabeth Lucie.		Nonfarm housing starts, monthly	11295
Noemi, Sister, <i>see</i> Carbone, Francesca.		Nonfarm real estate foreclosure report	2538
Noise:		Nonfat dry milk, <i>see</i> Milk.	
aircraft—		Nonferrous castings, <i>see</i> Castings.	
boundary layer induced, space-time correlations and spectra of wall pressure	6788	Nonferrous metals, <i>see</i> Metals.	
flight performance of transonic turbine-driven propeller designed for minimum production	9372	Nongovernmental organizations and metropolitan affairs, staff study	4749
jet-augmented flap configurations characteristics	3938	Nonlinear equations, <i>see</i> Equations.	
jet, effect of forward velocity on sound-pressure level in near noise field	17739	Nonlinearity of GAK-3 gravimeter scale, USSR study	1804
jet-engine exhaust noise from slot nozzles	15080	Nonmetals industry, injury experience, 1955	16696
jet-engine noise-reduction nozzles, investigation	8070	Noodles and noodle products, definitions and standards	435
jet, problems associated with ground operations	6779	Norfolk County, Va., soil survey	15193
measurements of free-space oscillating pressures near propellers at flight Mach numbers to 0.72	8067	Normal force, center of pressure, and zero-lift drag of several ballistic-type missiles at Mach number 4.05	15064
screeching combustion in 6-inch simulated afterburner experimental determination of accompanying gas motion	976	Normalization procedures for NRL drop-weight test	3989

# INDEX, 1959

	Entry		Entry
Norman project:		North Dakota—Continued	
construction, etc.—		census of governments, 1957, State	
hearings	14565	bulletin	11795
Interior Dept. report	1516	climate	17890
report	1616	climatological data	2993, 11546
Norridge, Ill., population, special		durum wheat allotments, increase	
census	8450	hearings	6043, 7438
North (U.S.):		report	12445
water-hyacinth transportation in		electric rate book	7710
interstate commerce, permit,		flaxseed storage at country eleva-	
report	15843	tors	13732
North Africa, <i>see</i> Africa.		Fort Berthold Reservation tribal	
North America:		lands, members to acquire, re-	
agromyzid leaf miners	5326	port	16110
east coast, tide tables	7249	Indians on Federal reservations,	
fauna	17430	general information, digest	13563
geologic names, index	17485	lignite, mining methods and costs	8031
geology, 1956, bibliography	12764	mineral industry, minerals year-	
Ichneumon flies, subfamily Me-		book chapter	17699
toplinae	5325	policemen and firemen, social se-	
lights and fog signals, list	3609, 7865,	curity coverage, law	15649
	14769, 16477	precipitation data, hourly	11549
	13741	<i>see also</i> Standing Rock Reserva-	
Mormon crickets		tion.	
northwest, vegetation as aid in in-		North Harvey, Ill., railroad accident	6341
terpretation of geologic data	1710	North Houston, Tex., railroad ac-	
Pacific Coast, sea water density	268	cident	7885
Pleistocene birds, review	4059	North Korea, <i>see</i> Korea.	
regional broadcasting agreement—		North Sea:	
hearing	12536	eastern shores, sailing directions	12779
interim report	16200	lights and fog signals, list	9133
tidal current tables—		North Vietnam, <i>see</i> Vietnam.	
Atlantic Coast	13896	Northeast (U.S.):	
Pacific Coast	13897	beech, availability	7805
west coast, tide tables	4398	eggs, cost of marketing and labor	
North Atlantic Ocean, <i>see</i> Atlantic		output of selected coopera-	
Ocean.		tives	8976
North Atlantic slope basin, <i>see</i> At-		electric facilities, map	16335
lantic States.		forest disease and insect conditions,	
North Atlantic States, <i>see</i> Atlantic		1958	12746
States.		forest insect and disease conditions,	
North Atlantic Treaty, mutual aid,		1957	489
costs for maintenance of U.S.		forest tree diseases survey	490
forces, agreement	17099	microlepidoptera and their para-	
North Atlantic Treaty Organization:		sites reared from field collec-	
first 10 years, 1949-59	6950	tions	3073
parliamentarians conference—		rainfall intensity-frequency	13662
1958, report, House delegation	5894	Northeast Airlines, Inc., accident	7230
1958, report, Senate delegation	3387	Northeastern Forest Experiment Sta-	
1959, U.S. participation, appro-		tion:	
priations, proposal	12339	annual report, 1958	10163
1959, Washington, D.C., favoring		forest research notes	3575,
meeting, reports	4603, 6038		7832, 17467-473
clerk for House delegation,		station papers	489-490,
report	3303	1688-89, 6262-64, 7833, 12742-	
status of forces agreement, criminal		746, 14734, 16439.	
jurisdiction operation—		Northeastern States, <i>see</i> Northeast	
hearings	14550	(U.S.).	
report	16185	Northern Hemisphere, <i>see</i> Hemi-	
North Carolina:		sphere, Northern.	
agricultural conservation hand-		Northern Mountain States, <i>see</i> Rocky	
book	14	Mountain States.	
census of governments, 1957, State		Northern States, <i>see</i> North (U.S.).	
bulletin	11794	Northern Utilization Research and	
climatological data	2993, 11546	Development Division:	
electric rate book	14634	publications and patents—	
family and property law, women	10637	list	51, 15287
landings, fishery products	2623,	on oilseeds and related subjects,	
	6185, 11161	list	7037
mail routes, schedule	2102	Northern white cedar, <i>see</i> Cedar.	
mineral industry, minerals yearbook	17698	Northwest (U.S.):	
chapter	11549	average discharge at selected gag-	
precipitation data, hourly	2996, 15451	ing stations and change of	
small industries program	496	storage in certain lakes and	
timber cull study, analysis	6256	reservoirs, 1943-57	16455
timber resources	2164	Christmas trees, production and	
TVA program activities	6286	marketing	1695
western, quartz crystal deposits, re-		current discharge at selected sta-	
port on sources and origin		tions	2658, 11197
North Central States, <i>see</i> Central		electric facilities, map	16338
States.		forest insect conditions, 1957	4896
North Counties Hydro-Electric Co.,		forest insect conditions, 1958	12726
claim	5825	forest soils publications, bibliog-	
North Dakota:		raphy	10178
agricultural conservation hand-		Port-Orford-cedar plantations	6265
book	3006		

# JANUARY-DECEMBER

Entry		Entry	
<b>Northwest (U.S.)—Continued</b>		<b>Notices to airmen:</b>	
silica resources		Alaska	2513, 11046
Mines Bureau plans for 1960	15022	International notams	2517, 11050
Mines Bureau to explore	15021	Pacific area	11045
site index charts, for Douglas fir	492	Notifiable diseases, see Contagion and contagious diseases.	
water resources summary	2661, 11200	Nova Scotia, sailing directions, change	16478
watershed management problems	12738	Novembicine	
weathering effect on accuracy of fuel-moisture-indicator sticks	17474	effect on course of Arthus-Sakharov phenomenon	6493
Northwest Airlines, Inc., accident	11820	Influence on development of anaphylactic shock, USSR study	6493
Northwest Electrodevelopment Experiment Station:		Nowata County, Okla., waterflooding projects	10427
metallurgical progress report—		Noxious plants, see Weeds.	
Oct. 1-Dec. 31, 1958	17268	Nozzles:	
Jan. 1-Mar. 31, 1959	15435	contour, effect on drag of parabolic afterbodies	16776
Northwestern States, see Northwest (U.S.).		convergent-divergent—	
<b>Norway:</b>		conical, effect on internal performance characteristics	983
interchange of patent rights and technical information agreement	8242	exhaust, at subsonic and supersonic flight speeds, thrust characteristics	6700
lights and fog signals, list	7866	exhaust, flight investigation of pentaborane fuel in rocket boosted 0.75-in.-diameter ram-jet engine	16799
marking and labeling requirements	4885	with various exhaust jet temperatures, thrust and drag characteristics	6701
mutual defense assistance agreement	17870	convergent-plug—	
sending gift packages to	14683	exhaust, effect of outer-shell design variables on internal performance	3892
southwest coast, sailing directions	3612	exhaust, plug design effect on performance characteristics	981
<b>Nose (aircraft):</b>		throat area, modulation, comparison of 2 methods	6705
configurations, effects on longitudinal characteristics of canard-type missiles	1034	effect of jet Mach numbers and divergence angle of nozzle upon pressure of base annulus of body of revolution, investigation at supersonic speeds	1045
configurations, force measurements on cone-cylinder body of revolution at Mach 4.0	6703	exhaust—	
drag of axially symmetric shapes of fineness ratio 3 for Mach numbers from 1.24 to 7.4	6683	ejector, use of main-inlet bypass to supply airflow at supersonic speeds	5243
<b>Inlets—</b>		feasibility of using ram-jet afterburning for variable outlet-geometry operation	3885
compressive flow about axially symmetric isentropic spikes at Mach number 3.85	16782	penshape exit, quiescent-air performance, investigation	5245
performance characteristics at Mach number 3.85	6695	plug-type, thrust and drag characteristics investigation	5231
performance of boundary layer separation at Mach number 5.5	16772	short convergent-divergent, effects of geometric variable on internal performance	6706
length, effects on low-speed oscillatory yawing derivatives	3923	two-dimensional wedge, internal performance	3905
lip shape of inlet installation and method for optimizing engine-inlet combinations	16747	variable area, performance characteristics of turbojet engine	16766
nose-boom, pressure installations for aerodynamic compensation of error due to position and angle of attack	13432	<b>fuel—</b>	
shape tests in 4,000 <sup>+</sup> supersonic air jet, exploratory materials	16842	performance of single turbojet combustor	998
<b>Notation system for transliterating technical and scientific texts for use in data processing systems</b>		protrusion effect on transient and steady-state turbojet combustor performance	13395
	9451	isentropic plug, methods to increase base pressure at Mach 0.9, investigation	1016
<b>Notch-toughness properties of ship-plate steel as evaluated by van der Veen notched slow-bend test</b>		jet-engine noise-reduction, investigation	8070
	17840	slot, jet-engine exhaust noise	15080
<b>Notes, see Treasury notes.</b>		thrust of downward-directed jet beneath flat surface, ground proximity effects	1096
<b>Notice (law):</b>		<b>NPD, see Military supplies.</b>	
assessment for public improvements in D.C., service by registered mail—		<b>NPIP, see Poultry.</b>	
law	9778	<b>NRAB, see National Railroad Adjustment Board.</b>	
reports	5993, 9832	<b>NRL, see Naval Research Laboratory.</b>	
Notice to aviators	2671, 11210	<b>NRL memorandum report series</b>	
index, 1958	6314		9435
Notice to mariners	2669, 11208		
chart, correction list	9132		
Great Lakes and tributary waters	2414, 10945		
indexes	9136		
<b>Notices of judgment:</b>			
caustic poison act	6204		
food, drug, and cosmetic act	2636-37, 4866, 11174-175		

# INDEX, 1959

	Entry
NRL report series	1124-30, 2081-90, 3984-91, 5340-51, 6856-68, 8142-55, 10532-542, 13504-520, 15127-181, 16982-993, 17800-810.
bibliography no. 1000-5000	13504
NRTS, see National Reactor Testing Station.	
NSA, see National Security Agency—National Shipping Agency.	
NSF, see National Science Foundation.	
NTIP, see Turkey.	
Nuclear charge distributions and comparison with related experiments	3154
Nuclear detonations, see Detonations—Nuclear explosions.	
Nuclear energetics	1378
Nuclear energy, see Atomic energy.	
Nuclear Energy, Inter-American Symposium on Peaceful Application, see Inter-American Symposium on Peaceful Application of Nuclear Energy.	
Nuclear engineering:	
chemistry in atomic engineering, USSR study	7935
materials list	4325-27, 11741, 17264
materials program, scope, guide	17265
Nuclear explosions:	
Argus project, weapon test in space—	
hearing	9922
reports	9876, 9926
fallout from tests at Nevada test site	8407
peaceful uses, literature search	7153, 17262
ten for survival, survive nuclear attack	17295
tertiary effects of blast, displacement	11754
underground—	
earth motion measurements	15405
effects	15436
photographic analysis, shot Rainier	11756
preliminary report on medium studies	15408
strong-motion measurements, preliminary summary report	11725
subsurface accelerations and strains	7156
subsurface motion	11727
surface and subsurface strong motion measurements	15406
surface motion	11726, 15407
Nuclear fission:	
cross sections, U-235, absolute neutron, determination	15400
irradiated fission reactor fuel and breeding material, reprocessing—	
annotated bibliography of reports	9664
list of reports	9666
Nuclear fuel, see Fuel—Reactor fuels.	
Nuclear Merchant Ship Symposium, proceedings, 1958	4330
Nuclear Metals, Inc., quarterly progress report, July 1-Sept. 30, 1958	3164
Nuclear physics:	
neutron cross sections of tellurium, project Matterhorn, quarterly report	17250
research, progress report	17253
Soviet abstracts	1381, 1855
Nuclear power, see Atomic energy.	
Nuclear power plants, see Nuclear reactor power plants.	
Nuclear powered ships, see Ice breakers—Ships.	
Nuclear radiation, see Radiation.	

	Entry
Nuclear reactions:	
controlled thermonuclear—	
conference papers	1396
lectures	8412
thermonuclear explosions, effect on aquatic organisms, new data.	12933
thermonuclear plasmas, energy production and fusion	17809
Nuclear reactor power plants:	
and turbine generator plant for electric power generation, design	13810
Army package power reactor—	
inspection and service manual	4311
operating manual	4311
atomic icebreaker Lenin, USSR	10327
costs of nuclear power	13812
D <sub>2</sub> O-moderated, symposium	15427
design studies, AEC summary and evaluation report	15431
Enrico Fermi atomic power plant, description, design, etc.	11721
fluid fuel reactors, report	15433
fuel elements, civilian, report	15432
gas-cooled power reactor designs, symposium	4331
health problems connected with work, USSR study	13156
heavy water moderated design	13811
marine propulsion, for commercial tanker, design	7144
organic cooled power reactor study	13809
organic moderated reactors, small technology and economics	17267
outer containment structures models, elastic response to internal blast loading	13529
Pathfinder, progress reports	3155, 13791
PM-1 program, progress report	17254
small, feasibility, statistical survey, generating cooperatives and municipalities	15434
spherical shell, elastic-plastic response to internal blast loading	13528
study for AEC	11744
turboelectric, producing 20,000 kilowatts of power for manned space vehicles, conceptual design	5290
thermoelectric, progress report	11752
Yankee Atomic Electric Company—	
critical experiments, hazards report summary	9669
hazards summary report, license application	194
research and development program, progress reports	193, 1399, 5653, 8417, 17272
Nuclear reactors, see Reactors (atomic).	
Nuclear science:	
abstracts	2324, 10771
index, Jan.-June 1958	2324
index, quarterly	10772
reports abstracted, availability listing	11739
teaching aids and activities	8468
Nuclear studies on MPR zero power test core	11728
Nuclear warfare, see Atomic warfare.	
Nuclear weapons, see Weapons.	
Nuclei:	
charge distributions and comparison with related experiments	3154
crystalline, probability of formation in binary melts of eutectic type, USSR study	12928
non spherical, low energy neutron scattering	3156



	Entry
Nucleic acids:	
content and synthesis in liver during subacute plutonium intoxication, USSR study	6592
role in genetics, UkrSSR conference	5143
role in heredity and variability of microorganisms, USSR study. <i>see also</i> Desoxyribonucleic acid.	6485
Nucleonics in nuclear reactor technology, analytical chemistry	8409
Nucleons, quiescent, dispersion relation for process $\pi + N \rightarrow \pi' + N'$ approximation	4307
Nucleoproteins, complexes, peculiarities in rabbit lungs after X-ray irradiation with sublethal doses, Ukrainian SSR study	5141
Nucleus, <i>see</i> Cells.	
Nuclides, trilinear chart, revision sheets	10776
<i>see also</i> Radionuclides.	
Numbering systems and coding of engineering drawings, etc., military standard	10060
Numerical and graphical prognosis of ground pressure field, Germany	6421
Numerical calculations:	
computation and statistics system of North Korean people's economy	13027
elements of heat regime of warm soil, USSR study	5150
fundamental solutions of wave equation, with tables	16907
turbulent horizontal diffusion of admixture spots in sea, USSR	5151
zero-lift wave drag, supersonic and movement-of-area rules combined for rapid calculations	9371
Numerical lists and schedule of volumes of reports and documents, 85th Congress, 2d session	8183
Numerical method for obtaining monoenergetic neutron flux distributions and transmissions in multiple-region slabs	5201
Numerical solution of equations of atmospheric dynamics	3788
Numerical solution of flow of perfect gas over circular cylinder at infinite Mach number	6769
Nunes, Richard A., Jr., relief of estate	4485, 8776, 9763
Nurse Corps, Army, history, highlights	5634
Nurse Corps, Naval Reserve:	
pay and retirement, Reserve credit for service	
hearings	4637, 14549
law	14052
reports	4588, 4606, 14504
Nurse Corps, Navy, join skillful team of nurses and doctors	9430
Nurseries (horticulture):	
nursery products, production and sales, 1957 and 1958	8286
yellow birch nursery stock development not affected by transplanting	17471
<i>see also</i> Forest nurseries.	
Nursery stock, <i>see</i> Nurseries (horticulture).	
Nurses and nursing:	
cancer, bibliography for nurses	17831
cardiovascular disease patients, nursing service outside hospital	13565
careers among American Indians	8197
examination, licensing, etc., in D.C., report	16137

	Entry
Nurses and nursing—Continued	
first job, United States Public Health Service hospitals	2110
health manpower source book	15167
metabolic balance studies, procedures in care of patients, manual	2060
nursing at Clinical Center	17774
practical nurses—	
basic preparatory programs by States and changes in number, 1957-58	1590
guides for developing curricula for education	8949
source materials for education	3424
professional nurse, examination announcement	4375
professional nurse traineeships evaluation conference—	
facts	17049
source book	17050
professional nurse training, continue program—	
hearings	14844
law	11992
reports	8870, 12118
psychiatric mental health traineeships for nurses	8105
public health nurses for tuberculosis, 1956	4028
public health nursing practice, objective data, etc.	17054
VA nurses, opportunity for you	17886
<i>see also</i> Nurse Corps, Army—Nurse Corps, Naval Reserve—Nurse Corps, Navy.	
Nursing homes:	
benefits for OASI beneficiaries, hearings	15977
additional copies, report	15908
meeting community health needs under hospital survey and construction program	5382
Nursing School, Freedmen's Hospital, <i>see</i> Freedmen's Hospital School of Nursing.	
Nutricati, Carolina, relief	14129
Nutrition:	
committee news	2275, 10727
enrichment of school lunch foods—	
hearing	8876
report	14445
fish meal proteins, evaluation of processing variables	16377
fish value in diet in reference to atherosclerosis and current research	424
good breakfast starts good day	5538
hygiene problems, USSR plans	13249
influence on course of radiation injuries in animals, USSR studies	3719
pollock fish scales value as determined by rat feeding tests	4861
research in China, present and future	10255
Soviet science in nutrition, new prospects and goals	10362
varied blood serum protein changes under action of X-rays	12960
<i>see also</i> Food.	
Nutrition Laboratory, <i>see</i> Army Medical Nutrition Laboratory.	
Nutrition of plants, <i>see</i> Plants.	
Nuts:	
foreign agriculture circulars	2643
packaged shelled, extending market life	9610
tree, foreign trade prospects	8523
tree, outlook for 1959 (statement)	1269
tree, production, use, value, by States 1957 and 1958	15277
<i>see also</i> names of nuts.	

# INDEX, 1959

	Entry		Entry
Nyasaland and Rhodesia, Federation of, <i>see</i> Federation of Rhodesia and Nyasaland.		Oats:	
<b>O</b>		culture in Western States.....	9603
O.A.S.I. series.....	1135-38, 2095, 3994-95, 6871-75, 8159-60, 9439-43, 10547-548, 17003	price supports, amend act—	
O.M.E., <i>see</i> Minerals Exploration Office.		hearing.....	7435
O.P.A., <i>see</i> Price Administration Office.		minority views.....	7405
O.S.P., <i>see</i> Offshore procurement program.		report.....	7405
Oahu, principal electric facilities, map.....	16342	Ob' River and Valley, engineering-geological characteristics, USSR study.....	6417
Oak:		OBE series.....	2349, 10880
California, leaf disease outbreaks, 1958.....	1674	Obscene matter:	
California white, properties.....	4911	copyright, denial of registration of claims, opinion of Attorney General.....	9269
eastern, Quercus species, American wood.....	14710	detention of mail for temporary periods, amend act—	
Michigan, soil moisture depletion patterns, comparison with red pine.....	14730	hearings.....	12304
mixed type, Wisconsin, measures to improve woodland stands.....	14725	report.....	15796
Oregon white—		indecent publications, forfeit property to D.C., reports.....	12405, 15868
properties.....	4911	mail order business, post office role in destroying (address).....	17013
silvical characteristics.....	4913	sent through mail—	
Ozark, insects cause degrade.....	10184	hearings.....	8749, 12305
red, northern, seedbed scarification show benefits were temporary.....	7828	Postmaster General—	
soil in woods, livestock trampling reduces infiltration rate.....	7829	declares war against distribution (address).....	8177
soil-moisture trends under varying densities.....	10183	offers suggestions against menace to America's children (address).....	8171
southern, slow growth, hardboard from mixture.....	4907	addresses.....	17017, 17018-19, 17027-28
upland, site index curves in Southeast.....	10180	Observatories, <i>see</i> names of observatories.	
Oak Hill Battlefield National Park, <i>see</i> Wilson's Creek Battlefield National Park.		Obstetricians, joint plenum, USSR study.....	17655
Oak Ridge National Laboratory:		Obstetrics, <i>see</i> Labor (obstetrics).	
ceramics information meeting, Oct. 1-3, 1956.....	1394	Ocala National Forest, sand pine regeneration.....	13739
master analytical manual.....	15423	Occupation? salesman U.S.A. (address).....	270
thermonuclear development program.....	8401	Occupational diseases:	
Oak wilt, spread, annual survey during 1955-58.....	3572	effect of radioactive substances and radiations, USSR study.....	12950
Oakland, Calif.:		hazards, evaluation and control.....	879
occupational wage survey—		nervous system in foundry cleaners, data on clinical symptoms, pathogenesis, and prevention, USSR study.....	12954
departmental edition.....	7978	roentgenologists and radiologists, USSR study.....	12939
document edition.....	7325	USSR problems in industrial hygiene and occupational pathology for modern physician.....	12972
standard metropolitan area, population estimate.....	207	Occupational health, <i>see</i> Health.	
Oakwood, Wis., railroad accident.....	547	Occupational stamp taxes, guide for small business.....	4955
OASI, <i>see</i> Old age and survivors insurance.		Occupational wage surveys, <i>see</i> Wages.	
OASI series.....	1135-38, 2095, 3994-95, 5359-60, 8159-60, 9439-43, 10547-548, 17003.	Occupations:	
Oaths:		Air Force—	
eliminate requirement on certain FCC documents, report.....	14472	civilians.....	4260
eliminate requirement to bankruptcy claims, report.....	9882	NCO, career airman.....	13747
loyalty, provisions of National defense education act of 1958, eliminate—		airman career fields and skill levels, functional arrangement chart.....	5565
hearings.....	8904	aviation career and scholarship references sources.....	8936
reports.....	12402	career opportunities—	
views.....	12402	Agricultural Research Service, veterinarians.....	1316
requirement in bankruptcy pleadings—		Air Research and Development Command, science, engineering administration, etc.....	147-148
law.....	15658	Army.....	7131
reports.....	15892, 14515	Education Office, handbook.....	3421
		engineering, science, etc. in Army Department.....	15390
		engineers, with Federal Government.....	15531
		Foreign Service.....	4066
		forestry.....	3071

# JANUARY-DECEMBER

Occupations—Continued	Entry	Ocean—Continued	Entry
career opportunities—continued		marine chemistry, problems and developments in Communist China	16549
General Accounting Office, professional accounting	14742	marine geology and submarine oil resources	16350
Housing and Home Finance Agency	525-526	marine physics, Communist China, progress and task	16548
auditors	4933	measurement of U.S. territorial sea	17855
finance analysts	4934	Puerto Rico shoreline, features and quaternary changes	17492
Maritime Administration, naval architects and marine engineers	9333	radar sea clutter characteristics, observations at 220 Mc.	3988
medical officers in Federal government	1496	sound propagation, observations, use in forecasting tsunamis, USSR paper	5152
military lawyers, Air Force	16635	survival at sea, Air Force manuals	9625-26
nursing careers among American Indians	8197	see also Waves—also name of ocean.	
Signal Corps, Army	5405	Ocean currents:	
trades and crafts in Federal agencies	4389	Bering Sea, possible effects upon king crab larvae	10137
Veterans Administration, librarian	8266	surface circulation as deduced from drift bottles	3498
women, in retailing	17895	tidal tables—	
women in science	1969	Atlantic Coast of North America	13896
career patterns of former apprentices, survey results	7125	Pacific Coast	13897
career profiles, brief descriptions, Interior Dept.	6322	Oceanographers, examination announcement	5726
classification, Government agencies, current practices	9642	Oceanography:	
critical, list for screening Ready Reserve, Air Force pamphlet	141	Arctic regions, summary of talks	9633
change	4251	calculation of turbulent horizontal diffusion of admixture spots in sea, USSR	5151
electronic data processing systems, basic job information	4782	central north Pacific, observations, Sept. 1954–Aug. 1955	4860
enumerators for 1959 census of agriculture, instruction book	13858	Communist China's plans	16546
Federal blue-collar workers	8483	Communist China's research tasks (speech)	16547
Federal position classification plan, handbook	2401, 10930	east coast of U.S., observations, 1957	9048
Federal white-collar workers	1497	education in field of science hearing	17342
future jobs for high school girls	5469, 13665	Gulf of Mexico, physical, chemical, and biological data	6193
health hazards, evaluation and control	879	in U.S., national program, hearings	17336
mathematics and your career	8005	Institute, Academy of Sciences, USSR, chemical research in Far Eastern waters, etc.	16542
mathematics helps in your career chart	3824	Marquesas area fishery and environmental data	9049
Navy, manual for civilian guidance counselors, etc.	16978	operational conference of Academia Sinica, China, summary	12985
occupational outlook publications	8004	physical, biological, and chemical data, south Atlantic Coast	7755
occupational outlook summary	9310	USSR research	16580
outlook, quarterly	2741, 11278	OCS, see Officer candidate schools.	
outlook series	301, 882	Odinia, see Files.	
publications price list	9460	Odors:	
radiation exposure, maximum permissible body burdens and concentrations in air and water	9396	fish—	
recent reports in occupational outlook field	9313	chemical components, progress report	14661
women college graduates, job experiences	9554	dicarboxyl compounds as components of odor	16375
working conditions, affected by State minimum wage law and order provisions, 1942–59	13663	Oerlikon Machine Tool Works	12080
see also Employment—Military occupational specialties		Buehrle & Co., relief	
Work—also names of occupations, industries, etc.		Offenses, see Crime and criminals.	
OCDM regulations	10925	Office employees:	
Ocean:		automation effect on employment opportunities—	
calculation of turbulent horizontal diffusion of admixture spots in sea, USSR	5151	departmental edition	882
China—		document edition	301
penetrate seas, make use of seas	12961	occupational outlook summary	9310
resources, discovery and use, scientific approach	12961	Office equipment, see Office furniture and equipment.	
climatic review	2989, 11541	Office furniture and equipment:	
high seas, salmon conservation, hearings	17356	computing and accounting, facts for industry	13864
ice classification and glossary, Russian-English	13305	Federal supply schedule	4832
importance to China	16546	machines	9024, 10116-117, 12671
		brand name index	14654
		commodity index	14655

# INDEX, 1959

	Entry		Entry
Office furniture and equipment—Con-		Oil shale—Continued	
stands, office machine, steel, Fed-		deposits, application of atomic en-	
eral standard.....	16363	ergy (address).....	6045
XY dial central office equipment,		European patents and classifica-	
maintenance, technical man-		tion, 1946-56, index.....	14989
ual.....	168	foreign petrographic examination	
see also specific types of furni-		and chemical analyses.....	13376
ture, etc.		gas flow retort, pilot plant opera-	
Office machine operators, examination		tion.....	16728
announcements.....	4374, 5742	mine, Rifle, Colo., design factors....	914
Office machines, see Office furniture		United Kingdom patents, 1946-56,	
and equipment.		index.....	1982
Office of Administrative Procedure,		Oil shale reserves, see Naval oil shale	
see Administrative Procedure		reserves.	
Office.		Oil wells, see Petroleum.	
Office of Postmaster of House of		Oilfields, see Petroleum.	
Representatives, see House of		Oils:	
Representatives.		animal and vegetable, facts for	
Office supplies:		industry.....	211
Federal supply schedules.....	413-416,	chemistry and technology of fuels	
1631, 9025-26, 12672, 14656		and oils (USSR periodical),	
devices and accessories.....	416, 1632	abstracts.....	8421, 10788
Office workers, see Office employees.		facts for industry.....	2371, 10902
Office candidate schools, Army, offi-		fats and oils situation, bimonthly..	2203,
cer leadership qualification in-		10660	
ventory OLI-1 selection device		Federal supply schedules.....	419,
and operational use.....	4128	4842, 12676	14658
Officers, see names of services to		foreign agriculture circulars.....	2643, 11182
which officers belong.		Industry, capacity and processing	
Official gazette of Patent Office.....	2873, 11412	trends.....	15322
title pages, contents, etc.....	2874, 11413	mineral, processes and products,	
Official mail, see Penalty mail.		classification bulletin.....	6886
Official register of United States,		outlook for 1958-59 (statement),	
1958.....	258	plants yielding, production, Soviet	
Official reports, see Supreme Court.		abstracts.....	739
Officials, see names of departments,		salad and cooking, sales, effects of	
etc.		coupons and special offers.....	13734
Offset duplicating plates, see Plates		waste, from steel rolling mills, re-	
(photographic).		covery for abating stream pol-	
Offset presses, see Printing presses.		lution.....	9337
Offset printing:		West Africa's fats and oils indus-	
maps, effect of thickening screen		try.....	16394
lines, USSR study.....	3712	see also Fuel oil—Lubricants—also	
masking method in 4-color repro-		names of oils.	
duction, conditions for use and		Oilseeds:	
effectiveness, USSR studies.....	5112	and oilseed products, prospects for	
Offshore procurement program, trans-		foreign trade.....	3525
fer of special tools agreement		and related subjects, list of publi-	
with France.....	8235	cations and patents.....	7037
Ogunquit, Maine:		crop, safflower, growing, etc.....	3058
engineer report on Josias River,		outlook for 1958-59 (statement),	
improvement.....	377	Okanogan River, blueback salmon	
departmental edition.....	292	spawning escapement, 1937....	6199
document edition.....		Oklahoma:	
Ohio:		census of governments, 1957, State	
butt-log tree grading works.....	9091	bulletin.....	11797
census of government, 1957 State		climatic summary 1931-52.....	17152
bulletin.....	11796	climatological data.....	2993, 11546
climatological data.....	2993, 11546	district court at Durant, waiver of	
electric rate book.....	8998	sec. 142, title 28, U.S.C.—	
forest products prices.....	480, 9093	law.....	15730
landings, fishery products.....	2624, 11162	reports.....	15805, 16154
mineral industry, minerals year-		electric rate book.....	16331
book chapter.....	3849	Kiowa, Comanche, and Apache In-	
precipitation data, hourly.....	2996, 11549	dians, use of judgment funds,	
west-central, preglacial Teays Val-		report.....	16109
ley, geological and geophys-		lands in trust for Cheyenne and	
ical, study.....	3605	Arapaho Indians, reconveyance	
Ohio River:		by Interior Dept., report.....	8642
Captain Anthony Meldahl locks		mineral industry, minerals year-	
and dam, near Chilo, Ohio, des-		book chapter.....	3850
ignating—		oil and gas lease terminated by	
law.....	11987	Land Management Bureau, re-	
reports.....	7422, 12411	instate.....	15593, 15780, 16003A
Ohio River and Valley, surface water		policemen and firemen, social secu-	
supply of basin.....	16473	ity coverage—	
Oil, see Oils—Petroleum.		law.....	15649
Oil contract bulletin IFB series.....	10068	report.....	6027
Oil fields, see Petroleum.		precipitation data, hourly.....	2996, 11549
Oil pipe lines, see Pipe lines.		relief—	
Oil sand, see Sandstone.		law.....	15733
Oil shale:		reports.....	15847, 16155
Colorado kerogen content, hydro-		Okra, culture and use.....	5543
genolysis study.....	6671	Old age, see Aged.	



# JANUARY-DECEMBER

	Entry		Entry
Old-age and survivors insurance : financing, report of Advisory Council on Social Security Financing-----	4060	Onassis, Alexander S., Corporation, trade-out and build activities, hearings-----	319
hospital, nursing home, and surgical benefits for persons eligible hearings-----	15977	Oncorhynchus nerka, see Salmon.	
additional copies, report-----	15908	100 years after, newsletters of Civil War Centennial Commission-----	2405, 10934
hospitalization service for beneficiaries, HEW Dept. report-----	8763	One nation under God, indivisible, with liberty and justice for all, abridgment of report of Commission on Civil Rights, 1959.	15512
OASI series-----	1135-38, 2095, 5359-60, 6871-75, 8159-80, 9439-43, 10547-548, 17003.	Onelda, N.Y., population, special census-----	8449
quarters of coverage, change rule for crediting, report-----	15857	Onions : dehydrated, Federal supply schedule-----	1633
social security benefits, if you work after you start getting payments-----	9439	diseases and their control-----	17192
State and local government employees, general information-----	6874	frozen breaded rings, standards for grade-----	15278
trust fund, facts-----	1138	futures trading and open contracts-----	2429-
your social security, etc-----	3995, 8160	30, 10962-963	
Spanish edition-----	17003	stocks, Jan. 1, 1959-----	1263
Old-age assistance, State plans under social security act, insert-----	17821	ONR, see Naval Research Office.	
Old River : low-sill control structure, over-all performance, hydraulic model investigation-----	12616	Ontario, Lake, small craft, gale and whole gale warning facilities, 1959-----	8271
overbank control structure, forces on panel gates, hydraulic model investigation-----	6109	Ontogenesis, see Ontogeny.	
project, rock-fill initial closure dam-----	7680	Ontogeny : antigenic properties of animal tissues, changes in ontogenesis, USSR study-----	12948
Older workers, see Labor.		brain phosphatase in rabbits during ontogenesis, histochemistry, USSR study-----	16623
Oldest Inhabitants of District of Columbia Association : real property conveyance by District of Columbia-----	14069	interno-and exteroceptive conditioned reflexes, formation in various stages, USSR studies-----	1809
law-----	12143, 14462	ontogenetic development in animals, inhibitory influences on cardio-vascular activity, USSR study-----	16621
reports-----	7077	reflex regulation changes of renal function, USSR study-----	16628
Olefins, hydrogen bonding of phenols-----	817	skeletal muscles in ontogenesis, role of cerebellum in development of functions, USSR study-----	16622
Oleogorak, iron ore concentrates-----	2209	OP series-----	3998, 5362, 6877
Oleomargarine : household purchases, quarterly include in Navy ration, report-----	16123	OPA, see Price Administration Office.	
sales, effects of coupons and special offers-----	13734	Open pit mining in mines of lead-zinc industry, USSR-----	5144
Oliver Wendell Holmes Devise Permanent Committee, report, 1958-----	2096	Operating engineers, examination announcement-----	4386
Olives : canned ripe, standards for grades-----	17180	Operating the jet, symposium-----	3390
industry, Australia, expansion-----	6208	Operation and maintenance equipment and procedures, releases, Reclamation Bureau-----	2904, 11450
production, use, value, 1957-58-----	13688	Operation gateway-----	15150
Olustee Experimental Forest, description, research in progress, etc., guide-----	1687	Operation hardtack (nuclear effects tests)-----	8399, 8416, 15405-408
Olympia, Wash., railroad accident-----	14790	Operation lead dog, 1958 (Army Transportation Environmental Operations Group)-----	5446
Olympic games : hold 1964 games in United States, invitation-----	5783	Operation plumbbob (nuclear effects tests)-----	1398, 3170, 4315, 7156, 8414-15, 11725-727, 11753-756, 17270-271.
law-----	5875, 6001	Operation teapot (nuclear effects tests)-----	1397, 15436
reports-----	15715	Opiates, see Narcotics.	
law-----	8694, 14545	Opinions, see Justice Department--also names of courts, etc., rendering opinions.	
reports-----	2072	Opium : laws, compilation-----	15760
Olympic National Park, general information-----		regulatory taxes-----	17719
Olympic Week, see National Olympic Week.		traffic, 1958-----	10463
Oman, amity, economic relations, and consular rights treaty, text-----	12343	Optical instruments and apparatus, photo and movie optics in USSR, status and prospects for development-----	818
OME, see Minerals Exploration Office.		Optical properties of Saturn's rings-----	1171
Omniranges : VHF, precision, preliminary tests-----	4808	Optical spectra, see Spectra.	
VOR, standardization of receiver-recorder system response-----	4803	Optics : and spectroscopy (USSR periodical), abstracts-----	10847
OMRO publication-----	5367		
On party unity, USSR-----	7896		
On-the-job training, see Employee training.			
On theory of fading properties of fluctuating signal imposed on constant signal-----	8097		

# INDEX, 1959

Entry	Entry
Optics—Continued	ORDP series, pamphlet----- 1139
photo and movie, status and prospects for development in USSR	Ore flotation, see Flotation.
Soviet abstracts----- 719, 1848, 1855, 3770	Oregon :
Optimum airplane flight paths----- 17760	census of governments, 1957, State
Optimum frequencies for outer space communication----- 13578	bulletins----- 11798
Orange, Tex., port----- 14602	climatological data----- 2993, 11546
Orange County, Calif. :	coast pilot----- 13898
real property, conveyance of U.S. interests, report----- 15910	Crooked River project, capacity for future irrigation, increase—
watertightness of Newport-Inglewood structural zone----- 12773	law----- 14098
Orangeburg County, S.C., fish hatchery, acceptance by U.S. report----- 14490	reports----- 12494, 15814
Oranges :	economic growth patterns----- 9308
artificial coloring, amend food, drug and cosmetic act----- 5776	family and property law----- 9551
law----- 4558, 4597, 4613, 4713	Federal land donation to Confederated Tribes of Warm Springs Reservation—
reports----- 4558, 4597, 4613, 4713	law----- 9791
production, effect of timing of parathion and malathion sprays----- 8288	reports----- 8645, 8837
Orbits :	foreign trade interests—
earth satellites 1957 observations----- 7072	print as House document, report----- 15906
periodic orbits of planetoid passing close to 2 gravitating masses----- 15190	text----- 17324
rotating, gravity torque on stability of satellite----- 16897	mineral industry, minerals year-book chapter----- 17700
Orchards, apple, establishing and managing----- 4169	northeastern—
ORD M series, manuals----- 2098, 6881, 10553, 13535, 15144-145, 17006	lodgepole pine----- 3579
Ord Mine, geology, Mazatzal Mountains, quicksilver district, Ariz----- 508	manganese deposits----- 13364
Orders, see names of departments, etc., issuing orders—also subjects.	Pacific slope basins, surface water supply----- 523
Orders (sales) :	precipitation data, hourly----- 2996, 11549
frozen foods, mechanically processing----- 8282	snow survey and water supply, forecasts----- 2943, 11492
Ordinance :	southwestern—
Government - owned inventions available for license----- 11870	forest and forest land problems----- 16428
management codes, Ordnance Corps manual, change----- 13535	herbicides effects on some brush species----- 7834
naval ordinance and gunnery, fire control, textbook----- 6851	spruce budworm control project, 1958----- 12755
Navy, shipping handbook----- 6877	statehood centennial stamp (talk)----- 5373
Pocatello, Idaho, plant disestablishment by Navy Department, hearing----- 6047	surface water supply, Pacific slope basins----- 523, 12777
provisioning technical documentation seminars----- 4761	surface waters, quality----- 7858
safety manual----- 9446	western—
changes----- 10553	floods of Jan. 1953----- 16470
see also Airborne ordinance—also names of ordinance material.	forest fire weather, 1958 season----- 1691
Ordinance Bureau, Navy :	women, labor laws, summary----- 9561
abolish and transfer functions—	Oregon & California R.R. :
hearings----- 9890, 12523	lands acquired by U.S., Interior Dept. to administer as re-vested grant lands—
law----- 14029	law----- 9787
reports----- 9856, 12136, 12480	reports----- 4590, 8857
employment opportunities----- 2871, 11411A	revested grant lands, permit lease to Oregon—
NavOrd reports----- 2097, 3996-97, 5361, 6876, 10549-550, 13525A-527, 17004	law----- 9786
pamphlet OP series----- 3998, 5362, 6877	reports----- 5844, 8859
Ordinance Corps, Army :	Oregon Caves National Monument, general information----- 3973
internal review, manual----- 15144	Orel, Theodore S., see Deryabin, Peter S.
manual ORD M series----- 2098, 6881, 9446, 10553, 13535, 15144-145, 17006	Ores :
pamphlet ORDP series----- 1139	deposits—
Ordinance Materials Research Office, Watertown Arsenal :	Chicago Creek area, Clear Creek County, Colo----- 9121
conference on effects of nuclear radiations on materials, report----- 5367	geochemical prospecting, book review----- 7937
OMRO publication----- 5367	Reld Inlet area, Glacier Bay, Alaska----- 4925
Ordinance of 1787, text----- 4669	Rodopski mining basin, Bulgaria, fields and deposits in USSR, structures----- 6426
Ordinanceman, see Minemen (ordnance).	mine ore industry, USSR, use of automation----- 656
Ordovician period, brachiopod fauna of Saturday Mountain formation, Lemhi Range, Idaho----- 12768	mineral treatment processes for percentage depletion purposes—
	hearings----- 7493
	hearings, additional copies, report----- 7372
	uranium content, radiometric analysis----- 1392
	utilization in USSR----- 866
	see also Assaying—also names of metals or minerals.

	Entry		Entry
Organ Pipe Cactus National Monument, Ajo Mountain Drive, general information.....	1110	Organophosphorus compounds, dependence of toxicity of certain insecticides on their chemical structure, USSR study.....	9246
Organic chemistry:		Organs:	
Soviet abstracts.....	709	internal—	
737, 742, 762, 776, 782, 1818, 1828, 1851, 1858, 3746, 3749, 3751, 3759, 3761, 3774, 3776-77, 6547, 10281, 10286, 10321, 13011, 13017, 13057, 13084, 13120.		cerebral cortex interrelation....	630
type reactions in fermentation chemistry.....	7038	excretion of radioactive isotopes, effect of complex-formers, USSR studies.....	5106
Organic compounds:		irradiated animals reflex effects on function of gastro-intestinal tract, USSR study.....	5122
analyses, micro determination of carbon and hydrogen.....	13526	transplantation—	
crystallization of binary chemical compound in ternary system, equations, USSR study.....	13273	reaction problems, conference of Czechoslovakian Academy of Sciences.....	7898
fluorinated, investigated for surface activity at organic-liquid/air interfaces.....	6857	tissue incompatibility, all-Union conference.....	7910
fungus inhibitive properties.....	3984	USSR Academy of Medical Sciences endocrinological studies.....	815
near infrared spectra.....	15357	Oriental art, see Art.	
semi-conductors, Japanese studies.....	3790	Orientation, spatial, cerebral cortex role, USSR studies.....	6415
synthetic chemicals—		Orlon, felt, use as surface overlay in glass reinforced polyester laminates, evaluation report.....	8214
facts for industry.....	2962	Ornithosis, see Psittacosis.	
production and sales, 1957.....	2160	ORNL, see Oak Ridge National Laboratory.	
Organisms:		Orography, cyclone genesis, USSR study.....	5116
animal—		Orphanos, George, relief.....	9945
effect of ionizing radiations, USSR scientific conference on problem.....	6580	Orphans:	
role and distribution of plant growth stimulators, USSR study.....	5125	Spanish-American War veterans children, provide educational benefits—	
aquatic, thermonuclear explosions effect, new data.....	12933	law.....	15619
chronic action of ionizing radiation, initial stages, USSR studies.....	6597	reports.....	12216, 16066
human, thermoregulatory shifts in cold climate.....	620	war orphans educational assistance act—	
irradiated, immunobiological reactivity, USSR studies.....	1934	amend, report.....	12217
living entities, peculiarities from view of physics, cybernetics and biology, USSR studies.....	6470	extend for service-connected disabilities after Jan. 31, 1955, hearing.....	12319
meteorological factors, effects and criticism of them, USSR studies.....	9245	Orthoptera, see Melanoplus.	
Organization and methods analysis, owner-managers' job.....	13581	Orthotropism, ultrasound effect upon phenomenon in organic substances, USSR study.....	12062
Organization and staffing for local health services, Jan. 1, 1958.....	13564	Oscillations:	
Organization charts:		atmosphere, and adaptations of meteorological fields, USSR studies.....	3801
Air Force.....	2293, 10745	finite cold plasma in strong magnetic field.....	15412
Army Department.....	2184, 10641	frequency and amplitude effects on roll-stability derivatives for 60° delta-wing airplane model, experimental determination.....	10488
executive departments and agencies.....	6060	helicopter blades attributed to pitch-lag coupling, description.....	3921
Organization of Executive Branch of the Government Commission, 1953-55, recommendations, 85th Congress action, report.....	6004	lateral, characteristics for airplanes, correlation.....	16745
Organizational maintenance, wire-sonde set AN/UMQ-4.....	3149	non-linear electron in cold plasma, analysis.....	187
Organizational structure of Czechoslovak economic production units.....	1754	resonant acoustic, component of screech mechanism in ducted burners.....	9361
Organizations:		some problems in theory of non-linear oscillations.....	15396
and officials concerned with commercial fisheries, 1959.....	16381	Oscillators:	
national, contributions to which are deductible, list.....	14783	classification bulletin.....	13538
nongovernmental, views on metropolitan area problems, staff study.....	4749	special purpose, technical manual.....	7134
Soviet, scientific, directory.....	16555	synchronized I.C., steady-state response to incremental reactance changes.....	15128
see also names of organizations.		Oscillograph:	
Organized communism in United States.....	7369	electromagnetic, used in research and testing in aircraft engineering, USSR study.....	7894
Organized labor, see Labor unions.			
Organophosphorus, acids, chemical reactions with isocyanates.....	16991, 17807		

# INDEX, 1959

Entry	Entry
Oscillograph—Continued	Outer space—Continued
measurement of electrical wave-	manned spaced vehicles, conceptual
forms of low-energy spark dis-	design of 20,000-kilowatt nu-
charges-----	clear turboelectric power
8047	plant-----
Oscilloscopes:	5290
AN/USM-81, operators and organ-	NASA space sciences program,
izational maintenance, techni-	description-----
cal manual-----	8091
cathode ray, vhf, commercial type	NASA/USAF probes, 1958, sum-
CAA specification-----	mary-----
236	13436
PAR-Scope, display for weather	national program for space re-
radars-----	search (address)-----
17225	3950
Osculatory interpolation coefficients,	next ten years in space-----
see Coefficients.	7366
Oshiro, Shoko, relief-----	7332
8624	text-----
Oskarshamn, Sweden, solar spectral	nuclear explosions, Argus project
intensity measurements at	weapon tests-----
3600A-6400A wavelengths	hearing-----
during eclipse of June 30,	reports-----
1954-----	9876, 9926
8146	operations of NASA, semiannual
OSP, see Offshore procurement pro-	report-----
gram.	15088
Ossorio, Loretta F., relief-----	document edition-----
8562, 14417, 15581	14112
Oswego, N.Y., electric facilities of	problems of national space pro-
area, map-----	gram (address)-----
16335	15089
OTS, see Technical Services Office.	program of NASA (statement to
Otter trawl, see Trawls and trawling.	Senate committee)-----
Onachita, Lake, general information.	5307
Our aims, USSR-----	project space track observations
14934	7072
Our flag-----	propulsion systems requirements
4280	for development-----
Our productive land, we can conserve	hearings-----
and improve it while using it.	hearings, additional copies, re-
17190	port-----
Our public lands-----	14351, 15864
2762	reports-----
Our soil, every acre to its best use.	questions bearing on space program
5412	of U.S. (remarks)-----
Out-of-school youth, see Youth.	16930
Outdoor program, National Capital	rendevous of satellites, methods
Parks, 1959-----	and velocity requirements-----
6834	17743
Outdoor Recreation Resources Review	research, etc., appropriations—
Commission:	program detail, 1960, hearings—
employees' salaries, exempt from	scientific and technical presenta-
classification act-----	tions, hearings-----
law-----	8873
reports-----	research in relation to financial
4596, 4720	needs of higher education in-
Outer Mongolia, see Mongolia.	stitutions (address)-----
Outer space:	15044
activities in relation to prepared-	research program of IGY, 1957-58,
ness program, investigation,	staff report-----
hearings-----	4464
4736	additional copies, report-----
balloon operations, contributions to	4570
research and development-----	research, recent trends (address)---
5595	5305
biology, research at Air Force Mis-	Soviet space research, transla-
sile Development Center-----	tions-----
5599	17619
communication, optimum frequen-	space and astronautics, materials,
cies-----	compilation-----
13578	16229
education, long range program	space flight field, technological
(address)-----	needs (addresses)-----
2015	8057-58
exploration—	space handbook, astronautics and
challenge-----	its applications—
9387	print as document, report-----
international cooperation, re-	staff reports-----
port-----	1545, 4462
1531	space in war and peace, bibli-
17762	ography, Army Dept. pam-
new frontier-----	phlet-----
nuclear energy potentialities, re-	17243
search and development prob-	space law problems, symposium---
lems (paper)-----	16230
17721	space law, symposium-----
PACAF basic bibliographies---	3807
7112	space sciences, development in pre-
United States plans (address)---	paredness program-----
17720	hearings-----
exploration problems, investiga-	hearings, additional copies, re-
tion—	report-----
report-----	15905
4732	reports-----
summary of hearings-----	9863, 9925
4463	space technology, science and ex-
Government agencies involved, or-	ploration, long range plan-
ganization responsibilities,	ning (address)-----
etc., investigation—	5304
hearings-----	taming of blue and beyond, Air
12520, 16082	Force pamphlet-----
8752	15349
international control, hearings---	U.S. activities during 1958, report.
investigation, authorization, re-	3288
port-----	U.S. policy on control and use, re-
3296	report-----
law, survey, staff report-----	7419
4465	United States research, final re-
print as document, etc., report---	port-----
4571	1532
man-in-space program, hearing---	Outlet boxes, electrical, manufactur-
14354	ing industry trade practice
manned and unmanned vehicles,	rules-----
plans and programs of NASA	420
(address)-----	Outlet works, see Reservoirs.
10464	Outlook (Chinese periodical):
	articles-----
	16513
	Outlook for 1959 (address)-----
	1504



## JANUARY-DECEMBER

Entry	Entry
Outlying possessions: internal revenue code provisions, amend, report.....	Oxygen rectifiers, horizontal centrifugal, description.....
15885	12948
population estimates, 1950-56.....	Oysters: certified shippers.....
4355	2894
United States trade.....	Crassostrea virginica effects of temperature and salinity on ciliary activity.....
2862, 10893	7743
Ovaries, tissues, chronic gamma irradiation effect, USSR study.....	Delaware-New Jersey industry, assistance to, report.....
3645	16169
Overseas service: Air Force preparation for overseas movement, individuals, manual.....	frozen, ascorbic acid as antioxidant.....
4208	9036
American overseas, hearing.....	Gulf, freezing investigations.....
6056	12683
civilian employees, administration of benefits, etc., improve hearings.....	Pacific, freezing methods.....
9919A	16378
Federal jobs.....	production, starfish predator problem, threat to industry.....
3230	485
Government offices, differentials and allowances act, report.....	spawning and setting in Long Island Sound.....
15789	7744
Overseas affairs bulletin (Chinese periodical): articles.....	tissue, effect of copper-chelating ability on ascorbic acid oxidation.....
16514	9036
Overseas information programs, see American propaganda.	Ozark Mountains, hardwoods, treatment with 2,4,5-T.....
Overtime, see Hours of labor.	10184
Overton, Nev., mining and processing silica sands.....	Ozone, addition effect on combustion efficiency of hydrogen-liquid-oxygen propellant in small rockets.....
13317	10500
Oven coke, see Coke.	
Oven methods for precise measurement of moisture content of seeds.....	P
4184	P. and S. docket.....
8625	2216, 10671
Ovens, Michael D., relief.....	P.H.S., see Public Health Service.
Ovens, PK-40 compartment electric stationary, for melting aluminum or aluminum alloys.....	P.N. series.....
649	10941
Ownership changes by purchase and merger in selected food industries.....	P.P.C. series.....
15325	2283, 10735
Oxidases, fish tissue, oxidative enzyme.....	P.Q. series.....
430	2284, 10736
Oxidation, hydrogen, study based on flashback of hydrogen-oxygen-nitrogen burner flames.....	PA series.....
2052	3075-76, 4189, 8331, 9614-10, 13737-738, 15327, 17206.
Oxide cathodes, see Cathodes.	PACAF basic bibliographies.....
Oxides, see oxides by name, e.g. Uranium dioxide.	1355-57, 3116-17, 5600-1, 7111-14, 8365, 9634-38, 11676-677, 17227-228
Oxygen: hydrogen-liquid-oxygen propellants ozone addition, effect on combustion efficiency in small rockets.....	Pacific area: climatological data.....
10500	2993, 11546, 16682
iron-aluminum-oxygen system phase relationships.....	exciting future of Pacific Rim (extracts from remarks).....
4274	7256
iron-oxygen alloys, mechanical working and heat treatment, use of Charpy-V transition temperature test.....	flight information, corrections.....
8154	2303
liquid, with liquid hydrogen, as rocket propellant.....	PACAF basic bibliographies.....
13435	1355-57, 3116-17, 5600-1, 7111-14, 8365, 9634-38, 11676-677, 17227-228
nitrogen mixtures, appropriate composition and thermodynamic properties.....	radio facility charts.....
13440	2309, 10760
oxygen (USSR periodical), abstracts.....	Pacific Coast: coast pilot.....
10848	13898
production by metal chelates, investigation.....	dogfish sharks—bounties to control depredations, report.....
13320	16044
recombination effect on 1-dimensional flow at high Mach numbers, errata.....	investigate methods of control or eradication—hearings.....
3917	317
requirements for turbine-powered airplanes, civil air regulations amendment.....	law, amend, hearing.....
16304	10047
reversible addition to hemoglobin, USSR studies.....	halibut fishery regulations.....
5036	6330
system requirements for turbine-powered airplanes, extension of compliance date, civil air regulations amendment.....	memorandum.....
14612	6329
therapy, effect on cerebral circulation in patients with hypertension, USSR studies.....	notices.....
6605	10202-203
therapy for atherosclerosis patients, USSR study.....	light lists—Alaska.....
6694	4405
Oxygen deficiency, hypoxia influence on carbohydrate - phosphate metabolism in brain, USSR studies.....	complete.....
6523	4399
	Hawaiian and Pacific islands.....
	4406
	Mexican border to Point Arguello, Calif.....
	4402
	Point Arguello to St. George Reef, Calif.....
	4403
	St. George Reef, Calif., to Alaska.....
	4404
	North and South America, sea water density at tide stations.....
	268
	shipbuilding, wage chronology, 1954-58.....
	10405
	shipbuilding cost differential, eliminate in bidding, hearings.....
	15954
	storm warning facilities charts—Canadian border to Eureka, Calif.—
	1958.....
	1959.....
	2174
	15223

# INDEX, 1959

	Entry		Entry
Pacific Coast—Continued		Pacific Southwest Forest and Range	
storm warning facilities charts—		Experiment Station:	
Eureka to Point Conception,		miscellaneous papers.....	12747,
Calif., 1959.....	15241	research notes.....	14735, 17476-477
Point Conception, Calif., to Mexi-		staff publications, 1958.....	16441-445
can border, 1959.....	15244	Susanville Research Center, guide.....	12756
tidal current tables.....	13897	technical papers.....	12748, 10446
transportation lines.....	1606	Pacific States:	
waterborne commerce, 1957.....	1609	fisheries, annual summary, 1957.....	3491
see also Pacific States.		flour mills, factors influencing	
Pacific Festival, 1959, see San Fran-		competition.....	11641
cisco, Pacific Festival, 1959.		home fruit garden.....	5536
Pacific Islands:		Pacific slope basins—	
geologic names, index.....	17485	surface water supply.....	523, 6296,
light list.....	4406	10195, 12777, 16475	
lights and fog signals, list.....	1718,	surface waters, quality.....	7858
4935, 14770, 17497		stratigraphic distribution of pele-	
mail routes, schedule.....	15151	cypod Aucella.....	7853
mineral industry, minerals year-		Pacific walrus.....	6202
book chapter.....	16707	Packages:	
sailing directions, changes.....	16481-482	cushioning materials, for use as	
sea water density at coast tide sta-		shock absorbers, dynamic	
tions.....	268	tester for evaluating, theory	
waterborne commerce, 1957.....	1609	and operation.....	7122
Pacific Islands Trust Territory, see		gift, sending to—	
Trust Territory of Pacific		Algeria.....	16399
Islands.		Argentina.....	17437
Pacific Northwest, see Northwest		Bolivia.....	16400
(U.S.).		Brazil.....	16401
Pacific Northwest Forest and Range		British East Africa.....	16402
Experiment Station:		Burma.....	16403
annual report, 1958.....	7804	Chile.....	16404
forest survey reports.....	491,	Czechoslovakia.....	14682
3576, 10177-178		Cyprus.....	16405
research notes.....	492, 1690-	Denmark.....	17438
91, 6265-66, 9105-6, 17474-475		Ecuador.....	16406
research papers.....	493,	Federation of Malaya.....	16408
3577-79, 7834, 16439		foreign countries, U.S. export	
silvical series.....	494-495,	regulations.....	6219
1692-94, 4913-15, 6267		Gabon, central Africa, Chad, and	
Pacific Ocean:		Congo.....	16409
adjacent to Far Eastern waters,		Germany.....	450
chemical research, USSR.....	16542	Greece.....	16410
airman's guide and flight informa-		Guatemala.....	16411
tion manual.....	2512, 11044	Hungary.....	10144
notices to airmen.....	11045	Iran.....	16412
albacore, sexual maturity and		Ireland.....	16413
spawning, study.....	7747	Israel.....	16414, 17439
between Honolulu and San Fran-		Norway.....	14683
cisco, aircraft accident.....	3196	Pakistan.....	16415
central—		Philippines.....	16416
pelagic sharks, distribution, etc.		El Salvador.....	16407
tuna larvae, description and dis-		Singapore.....	16417
tribution.....	6189	Tunisia.....	17440
central and western, tide tables.....	11861	Turkey.....	16418
central north—		Union of Soviet Socialist Repub-	
albacore fishing, construction and		lies.....	17441
catch selectivity of gill nets		Yugoslavia.....	14684
used.....	16376	imported articles repackaged, mark	
oceanographic observations, Sept.		with name of country of origin,	
1954-Aug. 1955.....	4860	report.....	15856
danger areas, DAPAC.....	14768	Insect resistant packaging, labora-	
eastern—		tory evaluation of promising	
tropical, physical, chemical, and		chemical compounds as repel-	
biological oceanographic obser-		lents to flour beetles.....	7062
vations obtained Nov.-Dec.		long train instrumentation, in-flight	
1956.....	6200	deployment from high-altitude	
Vinciguerra Lucetta, develop-		balloons, equipment and tech-	
ment and distribution.....	3497	niques.....	150
north—		relief, for communist countries,	
central, age determination of al-		tariff, etc.....	15972
bacore.....	7749	see also Prepackaging.	
salmon, experimental fishing to de-		Packaging, see Packing.	
termine distribution, 1956.....	16389	Packers, see Packing industry.	
POFI survey, fishery and environ-		Packing:	
mental data.....	9049	central packaging operations	
salmon species inhabiting.....	16380	(talk).....	17173
sea water density at coast tide sta-		converted flexible packaging prod-	
tions.....	268	ucts, facts for industry.....	2371,
Pacific slope basins, see Pacific		10902, 15472	
States.		summary, 1956-57.....	213

# JANUARY-DECEMBER

	Entry		Entry
<b>Packing—Continued</b>		<b>Pakistan—Continued</b>	
cotton bale coverings, problem of improvement.....	4183	mutual security program, development and implementation.....	
data, publications list.....	10173	hearings.....	3322, 4651
dynamic compression testing equipment for testing cushioning materials.....	488	report.....	4650
new breakthroughs in produce pre-packaging (talk).....	7026	sending gift packages to.....	16415
packaging—		surplus agricultural commodities, agreements.....	4084, 15207
food, effect of fallout contamination, test.....	8414	water buffalo, importance, use, etc., Palatine, Ill., population, special census.....	17507
food products sterilized by ionizing radiation.....	8396	Palaeontology, see Fossils.	
fresh produce, practices.....	11634	Palisades project;	
importance in marketing and in American way of life (address).....	11864	Burns Creek Dam, etc., construction.....	5685
industry reports.....	2335, 10808	hearings.....	8895
produce during next 10 years (address).....	17179	report.....	12396
produce in retail food stores, improved method of marketing, study.....	100	views.....	12396
pertinent information for manufacturers, etc., bibliography.....	8218	Pallets (material handling):	
petroleum and related products, military standard.....	359	hardwood pallet manufacturing....	6250
preservation, packaging, etc., for shipment, specifications, list.....	5602	Palm oil:	
preservation and intermediate protection, military packaging outlines.....	13533	processing tax, temporary suspension.....	
specification, electronic equipment, supplies, containers, Federal supply schedule.....	235	law.....	8522
see also names of articles packed.	4836	reports.....	4575, 7575
<b>Packing industry:</b>		<b>Palm Springs Reservation:</b>	
P. and S. docket.....	2216, 10671	equalization of land allotments—	
packers and stockyards act, application to—		law.....	15704
auction markets.....	3016	reports.....	15790, 16111
livestock dealers.....	13679	Indian lands, longer term leases—	
<b>Packing materials, Federal supply schedule.....</b>	<b>16367</b>	law.....	15691
<b>Packaginghouse products, standard specifications for veterans hospitals, etc.....</b>	<b>4118</b>	reports.....	14257, 15929
<b>Pact of mutual cooperation, see Baghdad pact.</b>		<b>Palmer, Theodore S., papers in Library of Congress, register.....</b>	<b>910</b>
<b>Pages, see Messengers.</b>		<b>Pamphlets:</b>	
<b>Pails, steel shipping, facts for industry.....</b>	<b>2371, 5699, 10902</b>	copyrighted, catalog of copyright entries.....	8911, 17363
<b>Paint:</b>		Federal supply schedule.....	417
evaluation of effect on absorption coefficient of treated surfaces.....	1167	see also names of departments, etc., issuing pamphlets—also subjects.	
facts for industry.....	2371, 9721, 10902	<b>Pan American games:</b>	
water emulsion, analysis.....	13531	Chicago, Ill., Aug. 27-Sept. 7, 1959, appropriation—	
<b>Painters:</b>		law.....	7304
examination announcement.....	5735	proposal.....	7498
treatise by Qādi Ahmad, son of Mir-Munshi.....	16454	reports.....	4604, 5858, 6021
<b>Painting, house, 2-coat system.....</b>	<b>6244</b>	commemorative air mail stamp (poster).....	13546
<b>Paintings, American fighting men from Revolution to Korea (announcement).....</b>	<b>6901</b>	<b>Pan American Health Organization:</b>	
<b>Paints, see Paint.</b>		land in D.C. for use as headquarters site, GSA to acquire—	
<b>Palute Indians, lands in trust for members of Fort McDermitt Palute and Shoshone Tribes, report.....</b>	<b>15811</b>	hearing.....	14577
<b>Pak Jae Seun, relief.....</b>	<b>9970, 11947, 14119</b>	report.....	14478
<b>Pakistan:</b>		<b>Pan American World Airways, Inc.:</b>	
communications unit establishment, agreement.....	17112	accident.....	3196
cooperation agreement.....	6967	emergency board report.....	12600
double taxation, convention.....	13615	<b>Panama:</b>	
economic developments, 1958.....	7781	contribution of history of Panama	
foreign trade, 1956-57.....	9083	land bridge.....	14754
import tariff system.....	1661	economy, basic data.....	14685
living conditions.....	12709	foreign trade, 1956-57.....	3548
mutual security in action, fact sheet.....	13612	geology and paleontology.....	14750
		import tariff system.....	10154
		living conditions.....	7801
		pharmaceutical regulations.....	3540
		production development law.....	455
		purchase of military equipment, materials, and services, agreement.....	13617
		rats, review of genus <i>Hoplomys</i> , etc.....	10585
		<b>Panama Canal:</b>	
		administration and operation, etc., investigation, report of findings.....	12154
		and adjacent waters, rules and regulations governing navigation.....	1458, 8443, 17277
		appropriations, 1960—	
		hearings.....	7445, 8881
		law.....	11975
		reports.....	8641, 8868, 12131
		construction annuity act, report, 1958.....	8484

Do not order from index; see indicated entry

Page 369

# INDEX, 1959

	Entry		Entry
Panama Canal—Continued		Paper—Continued	
improvements, short-range program, report.....	15952	newsprint outlook, report.....	12169
ship pilots, optional retirement, report.....	16222	paper and products, manufacturing plants, location by county and employment size.....	5701
vessel tonnage measurement, customs regulations, revised pages.....	3402	papermaking experiments on insular pine.....	6249
see also Canal Zone Government.		production, etc., facts for industry, 1958.....	4359, 11811
Panama Canal Co.:		products and processes, Government-owned inventions available for license.....	11871
annual report, 1958—		pulp and paper quality relation to wood properties and grinding conditions.....	1677
departmental edition.....	7188	surface roughness, apparatus for determination, description.....	1685
document edition.....	7329	see also Wood pulp—also names of articles manufactured from paper.	
audit report, 1957.....	295	Paper filters, see Filters and filtration.	
excess funds, handling, amend Canal Zone Code—		Paper mills, China, paper-chemical plant, explanations of design.....	14806
law.....	14054	Paper pulp, see Wood pulp.	
reports.....	12153, 14458	Paper work, see Paperwork (office practice).	
Panama Canal review (periodical).....	2350, 10851	Paperboard:	
Panama Canal Zone, see Canal Zone.		factors affecting future and demand, report, supp.....	12169
Panama City, Fla., port.....	8965	folding carton industry, midyear review and outlook for 1959.....	9685
Pancreas, tumors.....	16236	industry outlook for 1959 and review of 1958.....	1428
Panels (aircraft):		industry reports.....	2337, 10810
aluminum, exposed to random and discrete noise, acoustic fatigue.....	13439	production, etc., facts for industry, 1958.....	4359, 11811
brazed honeycomb core titanium sandwich structure, techniques.....	4276	see also Pulpboard.	
flutter, experimental and theoretical studies.....	16816	Papers, see Records.	
moving in gas, stability.....	3948	Paperwork (office practice):	
prefabricated, use of high density foam-in-place for panel edge band.....	9639	cutting through work simplification.....	15183
sandwich—		forms management, Navy Department guide.....	1131
buckling of rectangular panels subjected to edgewise bending.....	9098	management, employee motivation.....	8093
compressive buckling curves.....	7816	management workshops, Interagency Records Administration Conference.....	13453
effects of shear deformation.....	6245	reducing, in Federal position descriptions, guide.....	13892
heat transfer and thermal stresses, errata.....	6751	Pappathakis, Demetrios, relief.....	7540, 8599, 11925
truss-core and web-core, loaded in compression, optimum proportions.....	15083	Papua, parcel post exchange, agreement with Australia.....	1200
stresses, subject to intense random acoustic loading including near noise field of turbojet engine.....	8063	Parachute riggers:	
Panels (building):		certificates, civil aeronautics manual.....	16289
electrical equipment, 19 inch, military standard.....	10061	1 & C, Navy training courses.....	17798
prefinished hardboard wall, standard of trade.....	3176	Parachutes:	
sandwich panels for building, construction.....	4906	Air Force personnel, designation and jump status, manual.....	126
Panhandle & Santa Fe Ry., accident.....	16499	loft, certificates and ratings, civil aeronautics manual.....	16295
Pank, Agnes L., relief.....	12106, 15572, 16029	parachute-deliverable buoy-type automatic weather station.....	13505
Paper:		Paraguay:	
and allied products—		Army and Air Force missions, agreement.....	10601
labor turnover rates per 100 employees.....	7996	exports and imports, licensing and exchange controls.....	12712
prices and price indexes, 1957.....	897	foreign trade, 1956-58.....	9086
book and magazine, industry voluntary agreements under defense production act, Attorney General's report.....	17351	geology and mineral resources, reconnaissance study.....	7855
Chinese industry in 1958, selected translations and extracts.....	14833	mutual security in action, fact sheet.....	17091
factors affecting future and demand, report, supp.....	12169	preparing shipments to Paraliathodes camtschatica, see King crabs.	6228
facts for industry.....	2371, 10902	Paramagnetic resonance, see Magnetic resonance.	
Federal supply schedule.....	414	Parameters:	
Government specification standards.....	12323	cascade, effect on rotating stall.....	6786
industry outlook for 1959 and review of 1958.....	1428	flow, used in computing velocity distributions prior to sudden stalls, analysis.....	15081
industry reports.....	2337, 10810		
list of reference works.....	16431		
making—			
classification bulletin.....	17011		
experiments on Colombian woods.....	486		



# JANUARY-DECEMBER

	Entry
<b>Parameters—Continued</b>	
optimum constants for stress-rupture data by means of least squares.....	6784
rocket-engine, design, effects on regenerative-cooling capabilities of propellants, analysis.....	16896
shape, of atmospheric diffusion and deposition, patterns, alignment charts.....	189
statistical estimates of upper wind distribution.....	4124
subsonic diffuser use as supersonic inlet control parameter.....	16793
<b>Parasites:</b>	
fish parasite diseases, recommended treatment.....	10134
internal, swine.....	5332
of microlepidoptera, reared from field collections in northeastern U.S.....	3073
parasitic diseases, problems of control in USSR.....	14912
<i>see also</i> Flies—Rhizocephala.	
Parasitology, <i>see</i> Biology—Zooparasitology.	
Parathion, sprays, timing effect on orange production.....	8288
Parathyroecrine, elimination of Sr-89 from organism.....	5123
<b>Parcel post:</b>	
agreement with—	
Japan.....	10604
Portugal.....	13614
exchange between U.S., Papua and New Guinea, agreement with Australia.....	1200
readjust size and weight limitations, hearings.....	10053
<b>Paregoric:</b>	
dispense by oral as well as written prescription in D.C.—	
law.....	14059
reports.....	14212, 14459
Parenteral protein feeding in radiation sickness, USSR.....	14917
<b>Parents:</b>	
and 4-H work.....	9614
essential publications on child care, list.....	9467
mental health for parent and child, reading list.....	16948
<b>Park National Bank, relief.....</b>	5823,
15605, 16040	
<b>Parker, Adele M., relief.....</b>	4489
<b>Parker, Umeko, relief.....</b>	5971, 8581, 11892
<b>Parking of vehicles:</b>	
amend D.C. stadium act—	
law.....	15742
reports.....	12144, 12261, 16142
<b>Parks, Otis, relief.....</b>	4517, 5981, 7291
<b>Parks, surplus property donation, hearings.....</b>	17353
<i>see also</i> National Capital Parks—National parks—State parks—also names of parks.	
<b>Parliamentary conferences, <i>see</i> Conferences, congresses, etc.</b>	
<b>Parole, Federal prisoners, selection for parole.....</b>	8180
<b>Parole Board, report, 1958.....</b>	9268
<b>Partial acetylation of cotton, preliminary cost studies.....</b>	1280
<b>Participation loan program of savings and loan associations.....</b>	3820
<b>Particle accelerators, <i>see</i> Accelerators.</b>	
<b>Particle board, <i>see</i> Pulpboard.</b>	
<b>Particles:</b>	
from aerosol stream settling on obstacle during flow, USSR study.....	3697

	Entry
<b>Particles—Continued</b>	
fundamental—	
interactions, and difficulties of theory.....	15395
systematics, and isotopic spin.....	15395
monodisperse fog, methods of measuring size with radius of 0.1-0.5 microns, USSR study.....	5131
wave propagation in suspensions.....	8155
<b>Particles, charged:</b>	
many-particles, exposition of new theory.....	5635
size analysis, nuclear reactor technology, analytical chemistry.....	8410
wide-range amplifier for air shower detector, Japanese study.....	6403
<i>see also</i> Elementary particles.	
Partitioning of alloying elements in malleable irons.....	6861
Partitions, metal toilet, facts for industry.....	2372, 10903
Partnerships, income taxation, advisory group recommendations.....	5938
Parts, <i>see</i> Repair parts.	
Pascagoula, Miss., port.....	8965
Passage of salmonoids through darkened fishway.....	10139
<b>Passenger cars:</b>	
Government motor vehicles, safety standards, establish—	
hearings.....	14342A
reports.....	12211, 14241
<b>railroad—</b>	
construction, sanitation handbook.....	13562
operation of food and drink facilities, sanitation handbook.....	13561
<b>Passenger traffic, <i>see</i> Air carriers—Railroads.</b>	
<b>Passenger trains, <i>see</i> Railroads.</b>	
<b>Passenger vessels, <i>see</i> Ships.</b>	
<b>Passport Service, establish, hearings.....</b>	14337, 14560
<b>Passports:</b>	
application requirements, etc.....	6942
Communist frauds, staff study.....	12556
Communist use and abuse, hearing.....	4748
denial to correspondents wishing to visit Communist China, hearing.....	339
denial to supporters of communism—	
hearings.....	14337, 14560
report.....	15897
extend validity—	
hearings.....	14560
law.....	15635
reports.....	14469, 15855
issuance to communists, etc. security threat, hearings.....	12318
legislation, hearings.....	14337, 14560
seamen, repeal provision authorizing free issuance, hearings.....	12534
standards for issuance—	
hearings.....	14337, 14560
report.....	15897
United States policies and constitutional rights, legal opinions, staff study.....	327
visa work of State Department and Foreign Service, supplement.....	10590
visas, agreement with—	
Colombia.....	17104
Nicaragua.....	17873
Union of Soviet Socialist Republics.....	4081
Past, present, and future (address).....	16346
<b>Paste soap, <i>see</i> Soap.</b>	
<b>Patent advisor:</b>	
examination announcement.....	3232
discontinuance notice.....	3224
<b>Patent examiners:</b>	
design, examination announcement.....	3231
examination announcement.....	3232
discontinuance notices.....	3221, 3233

# INDEX, 1959

Entry		Entry	
Patent Office:		Patents—Continued	
administration, investigation—		rights, interchange, agreement	8242
expenses, report	3371	with Norway	
report	4729A	Southern Utilization Research and	
classification bulletins	2099,	Development Division, list	4161,
5369, 6886-87, 8166,	9448,		11608
15538-539, 17010-11.		tuber-propagated plants, report	16151
decisions, 1958—		United States system—	
departmental edition	9449	practices of General Services Ad-	
document edition	8533	ministration, preliminary re-	
fees by applicants for patents, etc.,		port	17359
increase, report	12133	practices of National Science	
official gazette	2873, 11412	Foundation, preliminary re-	
title pages, contents, etc.	2874, 11413	port	3394
releases	2875, 11414	practices of Tennessee Valley	
report, 1958	6885	Authority, preliminary report	3395
research and development report	9451	practices of Veterans' Adminis-	
research scientific supergrade posi-		tration, preliminary report	14573
tions, rates of basic compensa-		Western Utilization Research and	
tion, establish, hearings	15957	Development Division, semian-	
trademark rules of practice	4007	nual list	4158, 15295
errata	9452	Pathfinder atomic power plant, see	
trademarks, index, 1958	5371	Nuclear reactor power plants.	
Patents:		Pathological anatomy of radiation	
appeals court, proposals to estab-		sickness, USSR	10274
lish, 1887-1957	6073	Pathological physiology, see Physiol-	
atomic energy—		ogy.	
hearings	12027	Pathology:	
selected materials	5787, 7318	anatomy of experimental plague in	
basic facts, information aid for in-		camels, USSR study	16631
ventors	13541	clinical problems of higher nervous	
classification	2873, 11412	activity, status of and pros-	
classification manual, replacement		pects for study in USSR	7956
sheets	4005, 8167-68, 9450,	general problems, Soviet abstracts.	6468,
code of Federal regulations	6155	6479, 6533, 10279, 13031, 13045,	
compulsory licensing under non-		13058, 13073, 13078, 13087,	
American systems	6070	13132, 13138, 13233, 16562,	
conference, Lisbon, Portugal, Oct.		17603, 17612.	
1958	8741	prolonged reactions in puberty,	
decisions—		USSR study	14029
Court of Customs and Patent Ap-		21st congress of CPSU physiology	
peals	1575	tasks	10378
weekly	2873, 11412	Pathway to a civilian career, engi-	
yearly, 1958—		neering, science, management,	
departmental edition	9449	administration	15390
document edition	8533	Patients:	
Eastern Utilization Research and		care—	
Development Division, list	3042,	metabolic balance studies, man-	
	8299	ual	2060
examining procedure, manual revi-		progressive, elements	9467A
sion notice	4006	public health nursing service,	
fees paid by applicants to Patent		analysis	17054
Office, increase, report	12133	discharged from short-stay hos-	
in official gazette	2873, 11412	pitals, etc., July 1957-June	
index, 1958	6888	1958, statistics	2111
international convention for protec-		in mental institutions, 1956	8104,
tion of industrial property,		15094, 17775-776	
text of revision	8741	patient asks for medical report	1137
laws, investigation—		public mental hospitals, 1957-58	6810
expenses, report	3371	referral procedures, Clinical Cen-	
report	4729A	ter	1104
licensing agreements with United		State mental hospitals 1st admis-	
Kingdom firms	1665	sions, patterns of retention,	
Northern Utilization Research De-		release, and death	17832
velopment Division—		Patterns:	
list	15287	Communist espionage	7334
supplement	51	description, Federal item identifica-	
oilseeds and related subjects,		tion guides for supply cata-	
list	7037	loging	348-350, 2485, 3405,
oil shale and shale oil—		Patterson, Edward Arthur, Lake, see	11017
Europe, 1946-56, index	14989	Edward Arthur Patterson	
United Kingdom, 1946-56, index	1982	Lake.	
patent abstract series	11865-871	Paul & Beekman, Inc., relief	9829A,
placer claims, include nonmineral			14400, 15588
lands, report	16129	Pavements:	
publications, price list	10561	airfields—	
regulations of—		and heliport, design, engineering	
Egypt	9081	manual	1602, 12608
Korea	12715	evaluation concepts, engineering	
Netherlands	10155	and design manuals	12609, 14598
Philippine Republic	14706	evaluation reports, engineering	
Venezuela	3543	manual	14599
renewal fees and other patent fees,		flexible, engineering and design	
laws in foreign countries,		manuals	1604, 12610
study	3396	change	3430

# JANUARY-DECEMBER

	Entry		Entry
Pavements—Continued		Payette National Forest :	
airfields—continued		addition of lands—	
rigid, evaluation, engineering		law	11979
and design manual	12611	reports	5900, 8855
airstrip materials, Air Force use—		Payments :	
hearings	1541	in lieu of taxes—	
report	5917	hearings	7620
concrete, standard practice, engi-		minority views	16113
neering and design manual	14600	report	16113
Pavlovych, Petro, consultation with		Payments, Balance of, see Finance.	
staff of Un-American Activi-		Payments to Local Governments, Ad-	
ties Committee	15974	visory Committee on, see Ad-	
Pay, see Salaries—Wages—also head-		visory Committee on Payments	
ings, beginning Pay.		to Local Governments.	
Pay, allowances, etc. :		Payments to Local Governments,	
Army National Guard, Federal pay		Federal Board for, see Federal	
and allowances, N.G. regs.	9400	Board for Payments to Local	
Federal agencies, principles and		Governments.	
procedures, G.A.O. guidance		Payroll savings, see Savings bonds.	
manuals	505, 1706-7, 4917	Payrolls, see Pay rolls.	
military pay and accounts, Navy		Pea Island National Wildlife Refuge,	
comptroller manual	5355-57,	birds	14669
17000, 17814		Peace :	
military pay transactions, Air Force		bases for peace (remarks)	4069
manuals	8363	concept of food as instrument for	
overseas differentials and allow-		peace (statement)	11652
ances act, report	15789	international, promotion through	
payment procedures, National		effective use of food—	
Guard regs.	3956	hearings	12535
procedures, Air Force manual	1348	report	14436
quarters allowances to Navy Dept.		May Day holiday of labor and	
employees, validate—		peace in USSR	14010
law	7314	power for peace, Armed Forces	
reports	5835, 7532	Day, 1959, DOD pamphlet	3131
readjustment pay, reserve members		program in Europe (address)	10594
involuntarily release—		promoting through reduction of	
hearings	4643	armaments, reports	12476, 15862
reports	4621, 5855	role of law in peace (address)	5420
Reserve components of Armed		through preparedness (civilian	
Forces credit for service as		defense)	247-249
aviation cadet, etc.—		world, achievement through world	
hearings	4637, 14549	trade (remarks)	7271
law	14052	Peace Food Administrator Office,	
reports	4588, 4606, 14504	establish, report	14436
reserve components readjustment		Peace Food Policy Committee, estab-	
pay, include service in Army		lish, report	14436
or Air Force without specifying		Peaceful Application of Nuclear En-	
components—		ergy, Inter-American Sym-	
hearing	16193	posium, see Inter-American	
law	15689	Symposium on Peaceful Appli-	
reports	14207, 14539	cation of Nuclear Energy.	
subsistence allowance, Federal		Peaceful change (address)	17097
Judges, increase—		Peace trees, see Peaches.	
law	14091	Peaches :	
reports	4582, 12458	Arkansas, cost of packing, 1958	15323
transportation, naval service mem-		firm-ripe, prepackaging, report	9570
bers, relieve from liability to		Michigan, costs of packing, 1957	3064
reimburse—		phony disease, insect transmis-	
law	8512	sion	3083
reports	5836, 16043	production, use, value, 1957-58	9582
uniformed services—		Peanuts :	
contingency option act—		acreage allotments, marketing quo-	
benefits for service dependents	7126	tas, price support, programs,	
rates, Air Force pamphlet	5590	Agriculture Dept., recommen-	
personnel, mental competency to		dations, etc., hearing	8878
receive, medical boards to de-		boiling, exclude from acreage al-	
termine, appointment, amend		lotment and marketing quota—	
act—		law	15722
law	12022	reports	12189, 12515
reports	4598, 12468	farmers stock stored in bulk vol-	
WAAC credit for service—		ume-weight relationships	7008
hearing	5920	grading, new developments	1262
law	12020	industry, production, etc. (re-	
reports	8657, 12469	marks)	7274
Pay rolls :		insect control, stored farmers	
Federal agencies, principles and		stock	15253
procedures, G.A.O. guidance		market news, weekly report	2253, 10705
manual	505, 1706-7, 4917	outlook for 1958-59 (state-	
manufacturing division	9298	ment)	1267, 1271
Senate, report detailed information		price support program, hearing	7442
on quarterly basis, report	10003	spout-type automatic sampler	11639

# INDEX, 1959

	Entry		Entry
Peanuts—Continued		Penicillin-ekmo, new compound USSR studies	3682
stock, Georgia, insect infestation as factor in storing	17200	Penitentiaries:	
stocks and processing	2254, 10706, 15268	Federal, land in vicinity, Attorney General to acquire for protection of inmates—	
stocks in-storage, treatments for protection from insect damage, tests	15324	law	15651
U.S. standards, status	1262	reports	15832, 16103
Pear, <i>see</i> Pears.		national, investigation—	
Pearl Harbor, fishery rights, compensation of private claimants	5821, 7533, 9758	expenses, report	2375
Pearlmutter, William H., relief	4503	report of findings	7559
Pears:		penitentiary confinement, amend U.S. Code—	
Anjou, experimental prepackaging in pulpboard trays at point of operation (paper)	11579	law	15631
deciduous fruits, foreign agriculture circulars	2643, 11182	reports	8867, 14285
Kleffer, for home use	3060	prisoners confined for offenses against U.S., amend method of computing good conduct time—	
prices received by farmers, 1919-56, monthly and season average	9621	law	14092
production, use, value, 1957-58	9582	reports	8852, 14286
dry:		<i>see also</i> Prisons and prisoners.	
foreign agriculture circulars	11182	Pennmanship, <i>see</i> Calligraphers.	
prospects for foreign trade	3522	Pennsylvania:	
frozen, consumer preferences in relation to standards for grades	102	annual budget for employed woman	10638
<i>see also</i> Cowpeas—Field peas.		anthracite mines, fatalities, 1958	8026
Peat:		census of governments, 1957, State bulletins	13841
industry, trade practice rules	3490	climatological data	2992, 11546
minerals yearbook chapter	16716	electric rate book	16332
producers in United States, production, 1957	923	employment and earnings statistics, guide	7982
producers that reported production in U.S. 1958	17677	mineral industry, minerals yearbook chapter	3851
production, etc., in 1958	9344	northwestern, fish hatchery, establish—	
Pechora coal basin, industrial geographical work, results	1802	law	14058
Pectinophora gossypiella, <i>see</i> Pink bollworms.		reports	12152, 12505
Pediatricians, joint plenum, USSR study	17653	precipitation data, hourly	2996, 11549
Pediatrics, <i>see</i> Children.		timber resources	4916
Peer ratings, <i>see</i> Ratings.		women, labor laws summary	8277
Pegmatite:		Pennsylvania anthracite, <i>see</i> Coal.	
Beecher no. 3-Black Diamond, beryl deposits	16460	Pennsylvania Railroad, accidents	6338,
Middletown area, Conn.	1709	9151, 9153, 12798, 14789,	
Peiping Chung-kuo Ch'ing Kung-yeh (periodical):		16497-498.	
articles	9177	Pennsylvanian period, rocks of west and central Texas (series)	14756,
Peking, China, Peiping policy towards national minorities	5013	16469	
Pelecypoda, <i>see</i> Aucella.		Pensacola, Fla., port	8965
Pellegriul, Annibale G., relief	9950, 13979, 14139	<i>see also</i> Naval Air Station, Pensacola.	
Pellets, thorium-uranium, preparation	17259	Pensions:	
Peltogastridae, <i>see</i> Rhizocephala.		code of Federal regulations	4822
Penaeus setiferus, <i>see</i> Shrimps.		employee benefit plans disclosure act, new Labor Dept. responsibilities (address)	7967
Penal institutions, <i>see</i> Penitentiaries.		laws, compilation	286
Penalties:		Medal-of-Honor holders, increase, report	8676
subversive activities, enforce State laws—		plans under collective bargaining, early and involuntary retirement—	
report	8692	departmental edition	16661
views	8692	document edition	15786
unauthorized use of Government vehicles, amend act—		Public Health Service commissioned corps personnel act of 1959—	
hearing	12292	hearing	9913
report	14245	reports	12453, 14305
willful concealment of goods in D.C. stores, report	7408	retirement compensation for D.C. police band director—	
Penalty mail, privilege, use by extension employees	14623	law	15720
Pend Oreille County, Wash., gold, silver, copper, lead, and zinc, mine production, 1902-56	1986	reports	8688, 16163
Pendulum, formula for correcting values of gravimetry observed at sea, USSR observations	3690	service connected, contingency option benefits for dependents	7126
		trusts—	
		exempt from D.C. laws relating to perpetuities, restraints on alienation, etc.—	
		law	15612
		reports	14211, 14460



# JANUARY-DECEMBER

	Entry		Entry
Pensions—Continued		Performance (psychology)—Con.	
trusts—continued		manual tracking systems, interac-	
tax exemption, procedures and		tions between display gain and	
guides for qualification under		task induced stress.....	2085
Internal revenue code.....	7872	perceptual, and effective person,	
veterans—		psychological assessment and	
and dependents, synopsis.....	7492	research study, errata.....	4269
eligibility, amend railroad retire-		Performance of typical rear-stage	
ment act, hearings.....	6075	axial-flow compressor rotor	
loss of creative organ, payment		blade at three different blade	
without filing claim, report.....	8681	setting angles.....	2044
loss of eye and limb, report.....	8678	Performance story of the handi-	
program, operation, hearings.....	8761	capped.....	11268
rates for contingency option act,		Performance trouble-shooting test,	
Air Force pamphlet.....	5590	see Trouble shooting.	
service incurred deafness of both		Perinatal, infant, childhood, and ma-	
ears, additional compensation,		ternal mortality, 1957.....	15492
report.....	9830	Periodic orbits of planetoid passing	
totally disabled, etc., increase		close to 2 gravitating masses.....	15190
compensation, report.....	12218	Periodic systems, elements, table.....	1102
tuberculosis, arrested, service		Periodicals:	
connected, payment without		Air University periodical index.....	2294,
filing claim, report.....	8681	copyrighted, catalog of copyright	10746
who disappear, apportionment—		entries.....	4750, 8911,
law.....	14065	currently received, HHFA, list.....	14767
reports.....	8673,	fishery, partial list.....	1641
World Wars and Korean con-	12516	for libraries in Air Force medical	
flict, and widows, etc., mod-		facilities, list, AF pamphlet.....	7105
ify—		Government, price lists.....	4017,
law.....	14064	8185, 13555,	17825
hearings.....	12533	industry outlook for 1959 and re-	
see also Annuities—Civil service		view of 1958.....	1439
pensions—Retirement.		magazine publishers to disclose by	
Pentaborane:		sworn statement number of	
and pentaborane-3-methylpentane		copies distributed to subscrib-	
blends, spontaneous flamma-		bers—	
bility.....	974	hearing.....	8750
blends in octene-1, combustion per-		report.....	9874
formance for range of inlet		magazine reprints, articles.....	2979,
temperatures and pressures.....	995	National Bureau of Standards Li-	11528
supplement.....	1009	brary.....	3952
compatibility with materials used		review, weekly, Federal Reserve	
for seals, gaskets, and con-		System Board of Governors.....	2596,
struction.....	16778	Russian, in Helsinki University Li-	11133
fuel in rocket boosted 9.75-inch-		brary, checklist.....	8019
diameter ramjet engine with		Russian technical journals, English	
convergent-divergent exhaust		abstracts available from OTS,	
nozzle, flight investigation.....	16799	list.....	9684,
performance influence of new boric		USSR reference journals.....	15441
oxide-vapor pressure data.....	1009	Peritoneum, malignant neoplasms,	14852
spontaneous ignition limits.....	13401	death rates by age, color, and	
Pentoxyl, effect on leukopenia in		sex, 1949-51.....	10518
radiation leukopenia, USSR		Perkins, William L., relief.....	4514,
study.....	10380	8795, 9767	
Peony Park, Inc., and others, relief.....	7355,	Perlite:	
People's communes in China (German	16005	crude, production, etc., 1958 pre-	
address).....	6388	liminary report.....	5192
People's Council of Tsinghai Province,		minerals yearbook chapter.....	15030
work report (address).....	1757	production, etc., 1958.....	13359
People's Regional Legislative Coun-		Permafrost, see Frost.	
cils, use for defending democ-		Permafrost Research Establishment,	
racy and people's interests,		see Snow, Ice and Permafrost	
report of 6th plenary session		Research Establishment.	
of Control Committee of Indo-		Permanent Committee for Oliver	
nesian Communist party.....	587	Wendell Holmes Devise, see	
People's Republic of China, see China.		Oliver Wendell Holmes Devise	
Peppers, production, disease and in-		Permanent Committee.	
sect control.....	7050	Permeability, variation of taper-rolled	
Perception, see Sight.		wire-cloth.....	6720
Perceptual performance and effective		Permian period, lower, rocks of west	
person.....	4269	and central Texas (series).....	14756,
Performance (psychology):		16469	
airman—		see also Phosphoria formation.	
general aptitude test battery and		Permits, see classes of persons to	
classification battery AC		whom, or subjects for which,	
-2A.....	11684	permits are issued.	
technical school courses, relation		Peroxides, see Hydrogen peroxide.	
of selective aptitude index.....	8121	Perpetuities:	
cold weather military maneuvers,		laws of D.C., exempt pension and	
prediction for enlisted men.....	4	other employee trusts—	
effect of drugs, critical review and		law.....	15612
bibliography.....	13521	reports.....	14211, 14460
		Persecution in Communist China.....	17526

# INDEX, 1959

	Entry		Entry
Persic, Ivan (John), relief.....	9947.	Peru—Continued	
Personal affairs: 12072, 13924	9582	grant for procurement of nuclear research and training equipment, etc., agreement.....	17862
guide.....		reports.....	9847, 14451
marriage to aliens, requirements and procedures, Air Force pamphlet.....	4230	views.....	14451
social security, Air Force pamphlet.....	4231-32	living conditions.....	1663
PACAF basic bibliographies.....	17228	loan of floating dry dock, agreement.....	13625
Personal inventory barometer (PIB), development of questionnaire.....	10420	surplus agricultural commodities, agreement.....	1202
Personal property:		trade and tourist attractions (remarks).....	15546
excess, reporting and disposal, NG regs.....	8100	weather stations, agreement.....	5431
Government-owned in U.S., territories, etc., inventory report.....	12287	Pescadores Islands, sailing directions.....	17500
surplus, how to buy from Armed Forces.....	7658	Pesticide Chemicals Research Laboratories, publications, list.....	4159
Personality:		Pesticides:	
Air Force officers—		effects on fish and wildlife, Interior Dept. to continue studies—	
trait ratings use in assessment of captains.....	5603	hearings.....	317
effectiveness, assessment—		law.....	15644
correlates of criteria.....	9644	reports.....	14488, 15816
design of study and description of variables.....	5606	forest insect spraying effects, control facilities.....	6277
predictability of composite criterion.....	9645	pesticides can be used safely (talks).....	9595
sample description.....	5607	protecting crops and consumers, Food and Drug Administration's control program.....	440
summary and applications.....	9646	situation for 1958-59.....	8502
essential personal qualities for small store managers.....	17076	<i>see also</i> Sprays and spraying.	
Personnel administration, <i>see</i> Administrative management.		Pests:	
Personnel man, Navy training courses.....	13503	box tree, control.....	9601
Personnel management, <i>see</i> Administrative management.		forest pest leaflets.....	4897-4900, 6241, 7812-14, 12727, 14731, 16429-430.
Personnel Management Office:		intercepted plant pests, list.....	9593
establish—		your stake in plant pest control (address).....	9598
hearings.....	14576	<i>see also</i> Insects—also names of individual pests.	
report.....	16224	Petaluma Creek:	
Personnel management series.....	13892	designating as Petaluma River—	
Personnel manual, <i>see</i> Civil service.		law.....	14048
Personnel records:		reports.....	8708, 16049
Air Force officer procurement, variables contributing to panel scores.....	13779	Petaluma River:	
qualification, National Guard officers and warrant officers, N.G. regs.....	5314	designating—	
Personnel requirements criteria manual.....	13306	law.....	14048
Personnel research, <i>see</i> Ability.		reports.....	8708, 16049
Personnel Research Branch:		Peters, Lake, Arctic coastal research program, summary of talks.....	9633
technical research notes..... 1-3, 1237-43, 3002, 4127-29, 9565, 11555		Petit Anse Bayou:	
listings and abstracts.....	1238	improvement, engineers report—	
technical research reports..... 4, 1244-45, 5470, 9566		departmental edition.....	374
listings and abstracts.....	1238	document edition.....	324
Personnel retention handbook for Air Force supervisors.....	13752	Petitions in bankruptcy, fees for filing, increase, report.....	16072
Personnel services in education:		Petrography, <i>see</i> Rocks—also names of rocks.	
guidance and student workers preparation programs, status.....	4773	Petroleum:	
individual analysis, approach in educational and vocational guidance.....	1591	Alaska, geology of possible sources.....	17488
school and college preparation, programs, courses, etc., 1959-60, directory.....	16254	and petroleum-base products, Federal supply catalog.....	17368
Personnel workers:		and related products, packaging, packing and marking, military standard.....	359
examination announcement.....	254	Aneth field, San Juan County, Utah, reservoir-oil characteristics.....	16730
guidance and student preparation programs, status.....	4773	Appalachian oilfields, cable-tool coring with oil base mud.....	3871
Perspectives in research (talk).....	5517	bulk petroleum product systems, identification method, military standard.....	1584
Peru:		Communist China's industry.....	17527
foreign trade, 1956-57.....	6229	core test and test well, exploration, etc., Sentinel Hill and Fish Creek areas, Alaska.....	7852
		Crow Reservation, grant to certain Indians—	
		law.....	15648
		reports.....	14440, 15836

# JANUARY-DECEMBER

	Entry
<b>Petroleum—Continued</b>	
crude and products, minerals year-book chapter.....	16690
crude oil—	
analyses of crude oils from Alaska.....	6664
analysis, bibliography.....	16698
market demand forecast, monthly.....	2806, 11350
stocks report, weekly.....	2840, 11382
crude petroleum and products, monthly statement.....	2803, 11347
department of Mining Research Institute, Hungary.....	618
deposits in lands beneath inland navigable waters, Alaska, lease, hearings.....	3388
distribution by administration districts.....	2699, 11238
engineering study of Muskogee, oil field, Okla.....	8046
exploration and technical advance in Communist China.....	12862
exploration in Communist China, extracts.....	9210
geological prospecting and exploration problems, 1959-65, USSR studies.....	6427
import limitation program problems (statement).....	4951
industry—	
commemorative stamp (poster)..... evolution in Rumania since 1st World War.....	13543
progress, etc. (remarks).....	1913
use of radioactive isotopes.....	17851
uses of oil and importance to nation, (address).....	13766
integrated operations through farmer cooperatives, 1950 and 1957.....	14782
international trade, monthly inventory.....	7685
interstate compact to conserve—consent of Congress—	
hearing.....	8739
law.....	14003
reports.....	8702, 12465
report of Attorney General.....	875
known geologic structures of producing oil fields, procedures for defining.....	17401
leases—	
Alaska, increase acreage limitations—	
hearing.....	12541
reports.....	12197, 12477
veto.....	14114
increase leasing term, hearings.....	12545, 14564
increase rental, etc., hearings.....	14564
prevent undesirable divisions, hearings.....	14564
remove acreage exemptions, hearings.....	12545, 14564
terminated by Land Management Bureau, reinstatement.....	15599, 15780, 16003A
protection from cancellation, etc.—	
law.....	15659
reports.....	15849, 15916, 16069
validate, extend, etc.—	
hearings.....	14564
report.....	12475
minimum water-saturation and other core tests on Appalachian oil-reservoir sandstones.....	6662
model oil reservoir for simulating gas-cycling operations.....	16719
oil bearing ability of northern Siberia.....	17641
oil-bearing formations, methods for determining water contents.....	13362

	Entry
<b>Petroleum—Continued</b>	
oil contract bulletin IFB series.....	10068
oil field equipment and machinery industry outlook for 1959 and review of 1958.....	1425
oil field equipment and supplies, transportation costs.....	14787
oil industry, injury experience, 1958.....	13311
oil industry of Rumania and economic problems of its development under conditions of people's democratic system, selections, USSR book.....	17606
oil possibilities of northern part of territory of North Caspian depression, USSR studies.....	7917
oil producing formations, clay sensitivity to flood water, evaluation.....	941
oil-well drilling muds, evaluation of California bentonitic clay.....	13368
oil wells, new Karamay region, Szechwan Province.....	552
operations, integration by cooperatives.....	14610
petroleum economy (USSR periodical), abstracts.....	10849
petroleum worker (USSR periodical), abstracts.....	8441, 10850
plans and developments, Communist China, 1958.....	14798
production and refining activities in China, 1958 report.....	9171
products—	
labor turnover rates per 100 employees.....	7998
manufacturing plants, location by county and employment size.....	7220
prospecting—	
buried structures, USSR study.....	6430
central Asia, problems.....	6429
publications, price list.....	15163
quitclaim U.S. rights to Alaskan homesteaders, hearing.....	16208
research, production and utilization in Communist China.....	12902
reservoir rocks, effect of clay on permeability, Tejon-Grapevine area, Kern County, Calif.....	5203
reservoirs, application of atomic energy (address).....	6645
Soviet oil geology for 40 years.....	6424
submarine oil resources problems.....	16550
test wells, exploration and micropaleontologic study—	
Grandstand area, Alaska.....	3604
Meade and Kaolak areas, Alaska.....	1714
Simpson area, Alaska.....	6293
Square Lake and Wolf Creek areas, Alaska.....	6292
Titaluk and Knifeblade areas, Alaska.....	6291
waterflooding—	
Kansas oil sands containing viscous crude oils, results.....	5186
projects in Washington and Nowata Counties, Okla.....	10427
world statistics.....	2841, 11383
see also Naval oil shale reserves—Oil shale—Pipe lines.	
Petroleum engineering, Muskogee oil field, Okla., study.....	8046
Petroleum gases, see Gas.	
Petroleum products, see Petroleum.	
Petroleum refineries:	
bibliography of investment and operating costs—	
Jan.-Dec. 1957.....	9336
Jan.-Dec. 1958.....	14999
Communist China, refining extracts.....	5042

# INDEX, 1959

	Entry		Entry
Petroleum refineries—Continued		Philippine Legion of Honor, accep-	
including cracking plants in U.S.,		tance by Bernard W. Kear-	
Jan. 1, 1958.....	13314	ney.....	12061, 15582
Petrology, <i>see</i> Rocks.....		Philippines, <i>see</i> Philippine Islands.	
Petrovich, Borislav, relief.....	8798	Phillips, Willard, relief of estate.....	14159, 15604, 16008
Pettit Ranch, Keran County, Calif.,		Phillips mine, uranium deposits in	
uraniferous bog deposit, geol-		area.....	9117
ogy.....	15416	Philosophical problems in theory of	
PF series.....	2256, 10708	material basis of heredity,	
PHA, <i>see</i> Public Housing Administra-		USSR.....	16603
tion.		Philosophical problems of natural sci-	
Pharmaceuticals, <i>see</i> Drugs.		ence, all-Union conference on,	
Pharmacists:		<i>see</i> Union of Soviet Socialist	
examination announcement.....	15535	Republics.	
discontinuance notice.....	15529	Philosophical research (Chinese pe-	
status and prospects of training		riodical): articles.....	9238, 16518
pharmaceutical cadres in		Philosophy, philosophical inheritance,	
USSR.....	17650	symposia to develop free dis-	
Pharmacologists:		cussions and promote intensive	
careers in research, examination		study, China.....	14812
announcement.....	11836	Phoenix, Ariz., electric facilities of	
9th all-Union congress, USSR, pro-		area, map.....	16339
grams, etc.....	14967	Phonograph records, folk music, bal-	
Pharmacology, Soviet abstracts.....	743, 5032	lads, etc., of United States and	
<i>see also</i> Drugs.		Latin American, catalog.....	6639
Pharmacy, status and prospects for		Phonograph records, <i>see</i> Talking	
development, USSR.....	16627	books.	
Pharynx, malignant neoplasm, death		Phonographs, and record players,	
rates, by age, color, and sex,		facts for industry.....	8455
1949-51.....	10517	Phonorecords, Library of Congress	
Phase meters, <i>see</i> Raydlist.		catalog.....	13304
Phase studies, relationships in sys-		Phony peach disease:	
tem iron-aluminum-oxygen.....	4374	five insect vectors, life histories	
Phenacodaptes, early tertiary, com-		and behavior.....	3081
pare with Apheliscus as panto-		insect transmission.....	3083
lestid insectivores.....	13590	Phosphatases, brain, in rabbits during	
Phenergan, employment in prophyl-		otogenesis, histochemistry,	
axis and therapy of acute radia-		USSR study.....	16623
tion sickness, USSR study.....	14923	Phosphate rock, <i>see</i> Rock phosphate.	
Phenols:		Phosphates:	
hydrogen bonding to olefins.....	7077	aluminum and calcium land-pebble	
use in production of epoxy resins,		district, Fla., geologic explora-	
literature survey.....	13536	tion results by core drilling,	
Philadelphia, Pa.:		1953.....	10189
Army supply base piers, facilities,		deposits, northern Alaska.....	9120
etc., purchase.....		metabolism in brain during hypo-	
hearing.....	12526	thermia and hypoxia, USSR	
law.....	14041	studies.....	6523
reports.....	12471, 14206	mining design, etc., of pneumatic	
electric facilities of area, map.....	16335	vibrating-blade planer.....	3874
occupational wage survey.....		prospecting on public lands, issu-	
departmental edition.....	6632	ance of permits, report.....	16121
document edition.....	5793	superphosphates, facts for indus-	
standard metropolitan area, hous-		try.....	2371, 10902
ing inventory characteristics,		summary, 1958.....	7212
1956.....	5709	<i>see also</i> Butyl phosphates.	
Philately and philatelists, Post Office		Phosphoria formation, uranium geo-	
Dept. program and outlook		chemistry.....	16465
(address).....	17015	Phosphorites:	
Philippine Islands:		geochemistry of uranium therein.....	518
Bagulo gold mine, mining methods		uranium content, geochemistry.....	16465
and costs.....	10429	Phosphorus:	
claims, maneuvers at Laur training		chemistry, tautomerism.....	5348
area, agreement.....	8240	radioactive.....	
economic developments, 1958.....	7786	effect on cardiovascular system,	
foreign trade, 1956-57.....	9085	USSR study.....	10253
marking and labeling require-		use in treatment of polycythemia	
ments.....	14694	patients, character of blood	
patent and trademark regulations.....	14706	changes, USSR study.....	12921
preparing shipments to.....	1658	reducing content in Nevada iron	
sailing directions.....	17499	ore, experiments.....	15035
change.....	14771	tautomerism in chemistry.....	16986
sending gift packages to.....	16416	Phosphorus isotopes:	
United States Educational Founda-		P-32, internal radiation effect on	
tion, agreement.....	4085	functional condition of heart,	
Veterans' Administration em-		USSR studies.....	6444
ployees, U.S. citizens, bene-		skin reaction to local irradiation,	
fits.....		effect of antihistaminic and	
law.....	12003	sedative preparation, USSR	
reports.....	8675, 12423	studies.....	6447
Veterans Administration office, con-		small doses, effect on nitrogen me-	
tinue.....		tabolism, hemopoiesis, and	
law.....	11990	function of cardiovascular	
reports.....	8680, 12419	system, USSR studies.....	6446
workers movement.....	1756		



# JANUARY-DECEMBER

	Entry		Entry
Photoconductivity, characteristics of photoconductive detectors.....	13523A	Physical education and training:	
Photoconverters, silicon photocells as converters of solar radiation, investigation.....	13758	field manual.....	15376, 17241
Photoelectricity, conductivity of organic dyes, influence of temperatures, German studies.....	6406	urban elementary schools, status for children in city school systems, study.....	10071
Photogrammetry, see Photographic surveying.		Physical examinations:	
Photographers, mate 2, Navy training courses.....	6853	Air Force manuals.....	3106, 4225
Photographic apparatus and supplies:		cardiac cancer.....	17040
development of Japanese products		National Guard regulations.....	9399
Industry, 1954-58.....	4344, 8434	Physical fitness:	
Federal supply schedules.....	411,	airmen, medical certificates, civil air regulations amendments.....	3442, 16301, 10331
print drier PH-684B/U, technical manual.....	4830, 10114	development, USSR populace.....	
Photographic lenses, see Lenses.		standards for airmen, medical certificates, civil aeronautics manual.....	17393
Photographic surveying, procedure for preparation of 1:5,000 scale photographic maps, Hungary.....	6407	Physical geography, Communist China, translations.....	17552
Photographs:		Physical science aid, examination announcement.....	3207
copyrighted.....	4752, 7649	Physical sciences, see Science.	
engineering materials list.....	4325-27, 11741, 17264	Physical security, see Military security.	
Photography:		Physical therapists:	
amateur photographer's companion, USSR handbook.....	3798	Medical Dept., Army, pay and retirement, reserve credit for service.....	
earth motion studies.....	8399	hearings.....	4637, 14549
Journal of scientific and applied photography and cinematography (USSR periodical), abstracts.....	10823	law.....	14052
PACAF basic bibliographies.....	7114	reports.....	4588, 4606, 14504
see also Aerial mapping-Aerial photography-Radiography.		Physical training, see Physical education and training.	
Photolithography, use of techniques in transistor fabrication.....	5364	Physically handicapped, see Handicapped.	
Photomechanical processes, halftone drawings, scanning, terrain reproduction, German studies.....	3706	Physicians:	
Photometric measurements, effect of sensitivity characteristics of eye.....	10538	Armed Forces Reserve officer, commissioning and residency consideration program.....	8922
Photomultipliers, apparatus used, handbook, USSR study.....	17515	Congress of U.S., secure additional assistant from Naval Medical School, report.....	8638
Photons:		health manpower source book.....	15167
photon rocket, Bulgaria.....	3717	intern training, St. Elizabeth Hospital.....	9483
reaction engines for photon rockets, Bulgarian scientific research.....	3717	military service, extend act.....	
Photoresistors, lead sulfide, noise, investigation.....	13757	hearings.....	3318, 4735
Photosynthesis:		reports.....	3313, 4546, 4729
chlorophyll, tagged atom method of studying.....	7138	supply for growing America.....	17046
radioisotopes uses, list of references.....	9665, 15419	USSR—	
study, use of radioactive carbon C-14.....	8152	army and navy participation in prophylaxis of infectious diseases.....	863
Phototypesetting machines, photo-setting, quick etching, new possibilities of letterpress printing.....	607	Industrial hygiene and occupational pathology problems.....	12972
Phreatophytes, research in western U.S., Oct. 1958-Mar. 1959.....	12766	office hours in polyclinic, organization.....	12974
PHS, see Public Health Service.		quality of training in medical schools.....	12970
Physical beneficiation of low-grade uranium ores.....	7150	training plan in medical radiology at institutes.....	10358
Physical, chemical, and biological oceanographic observations obtained on expedition SCOPE in eastern tropical Pacific Nov.-Dec. 1956.....	6200	visits to and by, statistical data.....	16607
Physical chemistry:		Physicists:	
Journal of physical chemistry (USSR periodical), abstracts.....	10822	careers in research, examination announcement.....	15533, 15536
pyrometallurgical processing.....	4306	examination announcements.....	5722, 5747
Soviet abstracts.....	708, 765, 783, 1818, 1852-54, 1858-59, 3745, 3748, 3752, 3763, 3775, 3785, 6481, 6543, 6565, 10302-303, 10321, 13056, 13067, 13086.	discontinuance notice.....	15527
		needed in national economy of Soviet Union.....	867

# INDEX, 1959

	Entry		Entry
<b>Physics—Continued</b>		<b>Physiology—Continued</b>	
journals—		child's brain, abstraction and generalization as principal functions, USSR study.....	6484
experimental and theoretical physics (USSR periodical), abstracts.....	7178, 10819	clinical problems of higher nervous activity, status of and prospects for study in USSR.....	7956
technical physics (USSR periodical), abstracts.....	10824	electrophysiological material on alpha rhythm suppression reactions, dynamics of differentiation, USSR study.....	1772
marine, Communist China, progress and task.....	16548	human, radioisotopes in, list of references.....	192
metallography and physics of metals, problems, symposium.....	15394	human and animal, Soviet abstracts.....	3767, 3780, 6478, 6480, 6511, 6548, 6572, 10298, 10311, 13006, 13036, 13050, 13055, 13148, 13204, 14899, 16587, 16590, 17580, 17628.
news of—		humans and animals nervous system and motor apparatus, table of contents.....	3715
Academy of Sciences, Estonia SSR, abstracts.....	10834	mechanisms of evolution of central nervous system in vertebrates, USSR study.....	17632
institutes of higher learning of Ministry of Higher Education, USSR, abstracts.....	10844	pathological, present status and future of China's research.....	12924
penetrating radiations—		plant, radioisotopes uses, list of references.....	9665, 15419
conference summary, USSR.....	13262	plants, Soviet abstracts.....	1817, 1823, 3744, 5091, 6558, 10276, 10313, 12998, 13035, 13051-52, 13054, 13070, 13082-83, 13151, 13206, 17623.
seminar at Leningrad, USSR.....	10359	research in China, present and future.....	10256
physico-chemical mechanics of materials, development.....	6422	squawfish, leading adult within electric field.....	12689
physico-mathematical and natural sciences series, herald of Moscow University, abstracts.....	10805	<i>see also</i> Neurophysiology.	
physico-mathematical, natural, and technical sciences series, news of Academy of Sciences, Armenian SSR, abstracts.....	10833	Phytophthora lateralis on Port-Orford cedar.....	17475
physics of metals and metallography (USSR periodical), abstracts.....	10851	Plaseczno, Poland, sulfur deposits, mining methods, etc.....	3688
reactors, naval handbook, intermediate spectrum reactors.....	8421	Picatinny Arsenal, Dover, N.J.: technical notes.....	6882, 8164, 13536, 17007
relation to peculiarities and problems of living organisms, USSR studies.....	6470	technical reports.....	6883-84, 17008
research, off-site activities supported in whole or in part by AEC summaries.....	11740	Pickens County, S.C., crushed granite, methods and practices for producing, Campbell Limestone Co.....	917
role in biological problems, USSR study.....	12835	Picketing: aspects of labor reform (address).....	16646-647
scientific tests, standards, publications, price list.....	9464	labor union practices, selected readings.....	14333
series—		Pickett Truck Line, Inc., motor carrier accident investigation.....	3633
herald of Leningrad University, abstracts.....	10803	Pickling, <i>see</i> names of commodities pickled.	
news of Academy of Sciences, USSR abstracts.....	8439, 10841	Pictures, <i>see</i> Paintings.	
solid state—		Piedmont region: cover types, soil moisture depletion.....	15333
Soviet abstracts.....	788, 1848, 1855	timber cull study, analysis.....	496
summaries of AEC physical research projects.....	13802	Pieridae, <i>see</i> Butterflies.	
Soviet abstracts.....	711, 717, 719, 722, 788, 1848, 1855, 3770, 3773, 3781, 5068, 6542, 10325, 13068, 13131, 13170, 13230, 17615.	Pierre, S. Dak., geology of area.....	10192
Soviet Russia, forty years, review—	799	Pierre shale, <i>see</i> Shale.	
statistical, problems, equations with variational derivatives.....	1380	Piezoelectricity, theory of flexural piezoceramic circular plate sound radiators.....	9435
tectonophysics, new prospective branch of geology, USSR studies.....	9201	Pig iron, <i>see</i> Cast iron.	
theoretical, Soviet abstracts.....	788	Pigeons, mourning dove management units, progress report.....	10141
weather forecasting, numerical short-range, development.....	3787	Pigments: iron oxides—	
<i>see also</i> Nuclear physics—Radio-physics.		minerals yearbook chapter.....	16704
Physics Institute imeni P. N. Lebedev, Academy of Sciences, USSR, organization, achievements, etc.....	800	production, etc., 1958.....	13343
Physics of the Earth Institute, <i>see</i> Institute of Physics of the Earth.		lead and zinc, production, etc., 1958.....	13352
Physiological reactions of man during radial acceleration, USSR.....	1769	Pigs, <i>see</i> Swine.	
Physiologists: careers in research, examination announcement.....	15522	Pikea, <i>see</i> Fish and fisheries.	
9th all-Union congress, USSR, program, etc.....	14967	Piles (disease), <i>see</i> Hemorrhoids.	
Physiology: animal uses of radioisotopes in, list of references.....	7152		

# JANUARY-DECEMBER

	Entry		Entry
Piles and pile driving, wave forces on pile structures, large-scale tests.....	10088	Pine—Continued	
Pilgrim family, relief..... 12371, 13951,	14146	ponderosa—continued	
Piling, <i>see</i> Piles and pile driving.		quality appraisal, use of quality index.....	1673
Pilot guides, <i>see</i> Coast pilots.		ponderosa-Jeffrey, management, application of unit area control at Blacks Mountain Experimental Forest.....	7068
Pilot plants, <i>see</i> names of plants, or places where located.		red—	
Pilotage, <i>see</i> Pilots and pilotage.		Michigan, soil moisture depletion patterns, comparison with oak stands.....	14730
Pilots (automatic), <i>see</i> Aircraft automatic pilots.		needle droop, symptoms, causes, etc.....	3569
Pilots and pilotage:		plantation, fire fuels.....	3565
certificates, civil aeronautics manual.....	3440	repellents reduce cattle browsing, sand, regeneration Ocala National Forest.....	6275
Panama Canal ship pilots, optional retirement, report.....	16222	seeded and planted, growth rate similar.....	13739
require pilots on vessels navigating Great Lakes—		shortleaf, <i>neediprion taedae linearis</i> , pest.....	16451
hearings.....	12301	slash—	4900
report.....	12251	cubic foot volume tables for middle coastal plain of Georgia and Carolina sandhills.....	12754
<i>see also</i> Aviators.		planted, weight of merchantable wood with bank in Carolina sandhills.....	12753
Pine:		soil in woods, livestock, trampling reduces infiltration rate.....	7829
California forests, danger and control of bark beetle damage, 1959.....	14735	southern—	
cubic foot volume tables.....	476	insect enemies.....	6273
forests on Florida sandhills, need for preplanting site preparation.....	14738	nursery diseases.....	4898
insigns, pulping and papermaking experiments.....	6249	pitch canker.....	7812
international ¼-in. board foot volume tables.....	10181	standard stock doors, standard of trade.....	5667
jack, groundwood pulping.....	6254	sugar, quality appraisal, use of quality index.....	1673
loblolly—		wet site survival and growth.....	17479
girdle or fell oaks to release.....	16451	white—	
grinding conditions, relation of wood properties to pulp and paper quality.....	1677	eastern, management.....	14734
growth influenced by sites and seedling grades.....	16451	Massabesic Experimental Forest research program on study, management, and perpetuation of forests.....	1688
<i>neediprion taedae linearis</i> , pest, seed from Maryland best of sources tested for survival in southern Illinois.....	4900	weevil-resistant strains, breeding.....	7833
silvical characteristics.....	6271	western, symptoms of abnormal crown deterioration.....	12737
lodgpole—		Pine engraver beetles, <i>see</i> Beetles.	
in Blue Mountains of northeastern Oregon.....	3579	Pine Flat Dam, spillway crest and flip bucket, prototype tests.....	12619
silvics.....	14719	Pine Flat-Kings River project, <i>see</i> Kings River project.	
suitability for hardboard.....	3563	Pine needle-sheath miner, biology and control.....	16446
longleaf—		Pine root collar weevil, <i>see</i> Weevils.	
direct-seeding, guidelines.....	17480	Pineapples, production, use, value.....	9582
forests of south Mississippi, cattle grazing.....	3584	Pink bollworms, kill in cotton gin and oil mill.....	4191
root pruning boosts survival.....	10184	Pinkusiewicz, Cwy, relief.....	4698
Mississippi, wood quality resources.....	7818	Pinnacles National Monument, general information.....	3974
needle-sheath miner, biology and control.....	16446	Pins, fish tagging, corrosion resistance.....	4863
old-field slash plantations, site index curves.....	10182	<i>Pinus radiata</i> , <i>see</i> Pine.	
pitch—		Pioneer Air Lines, Inc., relief.....	14192
seedling in southern New Jersey, progress report.....	6262	Pioneering world's new age, article.....	10329
silvical characteristics.....	12745	Plorkowski, Mieczyslaw J., relief.....	12078
planting—			13939
Carolina sandhills.....	3583	Pipe and pipe fittings:	
Florida Gulf Coast sandhills.....	498	cast iron soil pipe, standard of trade.....	8429
ponderosa—		flexible polyethylene plastic, standard of trade.....	8430
and Jeffrey, pruned, 10-year observations.....	16444	inspecting austenitic steel steam pipes, new method.....	1165
damage by western dwarf mistletoe.....	14713	plastic pipe, facts for industry.....	9722
diameter growth in Inland Empire, prediction tables.....	6259	resistance of structural-plate pipes subject to blast loadings, test.....	4315
effects of wildfire on mortality.....	12734	rigid ABS plastic pipe—	
<i>Elytroderma</i> needle blight.....	16430	dimensions and tolerances, standard of trade.....	13820-821
factors affecting results of direct-seeding in Black Hills.....	1696		
logs, amount and grades of lumber from Black Hills area.....	16447		
lumber recovery, Black Hills area.....	7835		
poisoning and harvesting for peelability, Black Hills area.....	3581		

# INDEX, 1959

	Entry		Entry
Pipe and pipe fittings—Con.		Placenta, penetration of Sr, Cs, Ru, Fe isotopes through placental barrier into fetus, USSR study	14941
rigid ABS plastic pipe—con.		Placerville, Colo., geology of quadrangle	9116
IPS dimensions, standard of trade	13819	Placer claims, <i>see</i> Mines and mining.	
sewerage utilities, sewer pipe requirements for mains	15454	Plague:	
sprinkler irrigation systems, head loss in quick-coupled aluminum pipe, study	5526	experimental, in camels, pathological anatomy, USSR study	16631
steel, production, 1957, facts for industry	7210	Soviet scientists 40 years of work in field of study	1957
Pipe lines:		Plains, <i>see</i> Great plains.	
dependability for hydraulic systems, improving	13756	Plane coordinates, <i>see</i> Coordinates.	
Haines - Fairbanks, maintenance, agreement with Canada	17874	Planers (tools):	
oil—		pneumatic vibrating-blade, design and test operation	3874
antitrust consent decree program of Justice Dept., report	8742	Planes (aircraft), <i>see</i> Airplanes.	
transport statistics, 1957, errata	550	Planetary high frontal zones, <i>see</i> Meteorology.	
transport statistics, 1958	16502	Planetoids, periodic orbits passing close to 2 gravitating masses	15190
transportation revenue and traffic	11259	Planing mills, work injuries and injury rates	16656
Piquette Mining and Milling Co., zinc-ore mining and milling methods	6648	Planing surfaces:	
Pires, Eduardo, deportation suspension, rescission	7534, 8611	effect of convex longitudinal curvature	5271
Piston compressors, <i>see</i> Compressors.		study including effects of cross section and plan form	949
Pistons, pump for cryogenic fluids	6780	wake effects on hydro-skis, errata	13431
Pitch (aircraft):		Plankton:	
artificial damping effect on longitudinal and rolling stability of aircraft with negative static margins	9378	biological data, south Atlantic Coast	7755
characteristics of thin wings of aspect ratio 3 and taper ratio 0.4 at subsonic and supersonic speeds, effect of leading-edge sweepback	956	Gulf of Mexico investigations, 1951-53	6196
gap between wing and body, effects, helicopter blade oscillations attributed to pitch-lag coupling, description	15050	indicator of pollution of fresh water reservoirs by radioactive substances, USSR studies	1868
loads and controllability aspects of pitch-up problem, evaluating	3921	radionuclides in near Marshall Islands, 1956	3168
pitch-up elimination, design studies	15049	research, Communist China	16552
pitching moment, moment of area rule modification effect on characteristics	1036	Planners, <i>see</i> City planners.	
series of triangular-wing and body combinations at mach. no. 1.94, investigation	6766	Planning (economics):	
trailing edge bluntness effect	1051A, 15058	industry, planning of costs and profit formation, Czechoslovakia	1914
Pitch mass borers, damage to pine plantations, identification	17464	<i>see also</i> Business—Economic policy.	
Pitch pine, <i>see</i> Pine.		Planning for '65 (address)	9280
Pitch-up problem, criterion and method of evaluation	5297	Planning Navy meals	6971
Pitcoal, <i>see</i> Coal.		Planning philosophy for complex systems	16988
Pitting:		Plans and data on 4 Chinese communes	6343
meteorite, caused by fluid-dynamic mechanism of bound vortices	17077	Plant diseases, <i>see</i> Diseases of plants.	
range improvement in Great Plains and southwest desert regions	112	Plant Laboratory (USSR periodical):	
Pittman-Robertson act, <i>see</i> Wildlife.		abstracts	8442, 10852
Pittsburgh, Pa.:		Plant lice, <i>see</i> Spotted alfalfa aphids.	
electric facilities of area, map	16335	Plant nutrition, <i>see</i> Plants.	
un-American activities investigation—		Plant pathology, <i>see</i> Diseases of plants.	
communist strategy and tactics in area, hearings	8757	Plant Pest Control Division, service and regulatory announcements	1288
denaturalization and deportation of communists, hearings	8758	Plant pests, <i>see</i> Pests.	
security in industrial establishments holding defense contracts, hearings	8759	Plant Quarantine Division, service and regulatory announcements	1288
Pivac, Ante G., relief	14371	Plant regulators:	
Placement, youth, self-training unit on child-labor laws for workers	16652	include in Federal insecticide, fungicide, and rodenticide act—	
<i>see also</i> Child placing.		hearing	12270
		law	14002
		reports	9854, 12438
		Plantation workers, employment conditions, ILO recommendations	7340
		Planting, design, manuals	10084, 12603
		<i>see also</i> Forest planting—Sowing—Tree planting.	
		Plantings, <i>see</i> Crops.	



	Entry
Plants:	
cultivated—	
general problems, etc., Soviet ab-	
stracts.....	3730-31
Soviet abstracts.....	718,
738-741, 5047, 6527, 6531-32,	
6541, 13023, 13109, 13153, 13188,	
13213, 14668, 14870.	11747
fusion products relationships.....	
Library of Congress classification,	
plant industry.....	8016
native, on upper Snake River	
plains, seasonal development	
and yield.....	115
nutrients, consumption, 1958, pre-	
liminary report.....	5519
nutrition, tagged atoms in study	
and use of fertilizers, conference	
transactions.....	171
physiology.....	
radiosotopes uses, list of refer-	
ences.....	9665
Soviet abstracts.....	1817,
1823, 3744, 5091, 6558, 10276,	
10313, 12998, 13035, 13051-52,	
13054, 13070, 13082-83, 13151,	
13206, 17623.	
polyploidy, evolutionary factor,	
etc., USSR studies.....	3661
potted, retail marketing in mass	
market outlets, economic	
aspects.....	1257
primary plant nutrients, consump-	
tion in U.S.....	15280
protection, chemical means, USSR	
study.....	14851
publications, price list.....	9462
quarantine notices.....	2284, 10736
quarantine P.P.C.-Q series.....	56
resources of A-erh-tai Shan in Sin-	
kiang.....	12884
scrub barrens of central Asia.....	3670
service and regulatory announce-	
ments.....	1288
stimulators in animal organisms,	
role and distribution of growth	
processes, USSR study.....	5125
tuber-propagated, patents, report-	
understory, of bottomland forests.	
Yellow River Valley, vegetation dis-	
tribution.....	12840
see also Diseases of plants—Phre-	
atophytes—also names of	
plants.	
Plants (industrial):	
adjustments to \$1 minimum wage—	
approved to pack processed fruits	
and vegetables under inspec-	
tion, list.....	13676
chicken processing, economies of	
scale.....	11573
defense facilities assistance pro-	
gram, agreement with—	
Italy.....	8246
United Kingdom.....	6959
egg grading packing, design.....	3021
Government-owned plants and fa-	
cilities, utilization, hearings.....	3320
grocery warehouse layout and	
equipment for maximum pro-	
ductivity.....	11638
layout and methods in metals indus-	
tries, State of Minas Gerais,	
Brazil.....	10201
location factors for small industry,	
checklist.....	2131
manufacturing, employee food serv-	
ices—	
buying practices and food use—	
management appraisals, nature	
and extent, vending machines.....	8319
manufacturing plants, location by	
industry, county and employ-	
ment size.....	7217-24, 5701

	Entry
Plants (industrial)—Continued	
manufacturing plants—continued	
announcement and order form.....	7191
employment.....	9725
new, manufacturers' expenditures,	
1957, 1956, 1955, and 1954.....	9704
planned emergency procedures, reg-	
ister.....	17366
quality control and technical devel-	
opment laboratory, setting up.....	13585
radioactive waste disposal prob-	
lems—	
hearings.....	12029
summary analysis.....	14104
small, floor resurfacing compounds.....	6933
tire reconditioning, establishing and	
operating, practical informa-	
tion.....	7877
see also types of industrial plants.	
Plasma:	
cold, non-linear electron oscilla-	
tions, analysis.....	187
conference on ion and plasma re-	
search.....	4257
electron, free oscillations in mag-	
netic field.....	3153
equilibrium in toroidal system.....	15413
finite cold, oscillations in strong	
magnetic field.....	15412
gas, effects on cotton, progress re-	
port.....	17182
oscillations with diffusion in ve-	
locity space.....	1390
papers presented at controlled ther-	
monuclear conference.....	1396
physics research, recent results.....	16993
propagation of electromagnetic	
waves, theory.....	5638
thermonuclear plasma energy pro-	
duction and fusion products.....	17809
Plasma (blood), see Blood.	
Plaster, gypsum, effects of small	
amounts of dissolved sub-	
stances, hydration-rate stud-	
ies.....	10454
Plasticity:	
factors, effects on ductility of so-	
dium chloride, lithium fluoride	
and magnesium oxide single	
crystals.....	16901
plastic deformation effect on heat	
resistance of EI437 alloy,	
USSR studies.....	1926
shear deformation effects in core of	
flat rectangular sandwich	
panel.....	6245
see also Aluminum.	
Plastics:	
acrylic, multiaxial stretching, inves-	
tigation.....	13663
adhesives for attaching electric	
strain gages.....	17007
corrosive effects on metals.....	13527
facts for industry.....	2962, 11510
flow throughout volume of thin ad-	
hesive bonds.....	1679
glass-reinforced laminates, effect of	
long-term loading.....	4905
high density foam-in-place for pre-	
fabricated panels.....	9639
laminated—	
aircraft components, publica-	
tions, list.....	9103
glass-fabric-base, subjected to	
axial loading, fatigue tests,	
effect of notches.....	4904
glass-reinforced, Prot test method	
application to stress-rupture	
curves.....	487
physical properties and uses.....	8162
printed circuits, preparation of	
standards and test procedures.....	3126
report on 1958 all-China con-	
ference.....	6536

# INDEX, 1959

	Entry		Entry
Plastics—Continued		Plumbing fixtures, <i>see</i> Plumbers' supplies.	
standpipe for sampling streambed environment of salmon spawn—	4862	Plums, production, use, value, 1957–58—	9582
tensile properties for 3 thermoplastics over 6 decades of rate—	13537	Plutonium, intoxication, effect on content and synthesis of nucleic acids in liver, USSR study—	6592
transparent and translucent window covering, 1957, facts for industry—	15476	Plymouth, Mass.: First Baptist Church land sale, repeal—	
<i>see also</i> Laminated materials—also names of articles made from plastics.		law—	13712
Plastisols, cellular, use for coatings on ordnance handwheels—	10551	reports—	9987, 14321
Plates (metal, etc.):		Plywood:	
blunt, calculating surface pressures in hypersonic flow—	16898	Douglas fir, standard of trade—	9678
cantilever, subjected to thermal stresses, effects of large deflections and initial twist on torsional stiffness—	2020	hardwood—	
curved, buckling, structural stability handbook—	16927	facts for industry—	2372, 10903, 13860
moving in gas, vibrations—	3949	industry, outlook for 1959 and review of 1958—	1421
rectangular sandwich, torsion—	17454	report on escape-clause investigation—	10611
ships, fracture appearance of impact specimens—	13573	industry, development in California—	3553
square, loaded in edge compression, theoretical analysis of creep behavior—	1094	softwood—	
strength, structural stability handbook—	16926	facts for industry, 1958—	15479
structural compression loads at elevated temperatures, lifetime theoretical determination—	6768	industry, outlook for 1959 and review of 1958—	1422
torsional stiffness of diamond-shaped wing subjected to constant heat input, effect of chordwise heat conduction—	16883	PN series—	10941
variational theorem for creep, errata—	947	Pneumococcosis, dinitomite mining and processing—	2114
<i>see also</i> names of metals, etc., of which plates are made.		Pneumonia, death rates by age, color, and sex, 1949–51—	13476, 13478
Plates (photographic):		Poblet, Jose, deportation suspension, rescission—	7536, 8613
offset, procedure for checking wear resistance surface of patterns, USSR study—	7943	Pocatello, Idaho, naval ordnance plant, disestablishment by Navy Department, hearing—	6047
regraining, Federal supply schedule—	14650	Pocket meters, <i>see</i> Dosimeters.	
Plating, <i>see</i> Chromium.		Podany, Frank, relief—	12382
Platinum:		Poe lock, replacement, designate John A. Blatnik lock, report—	9875
alloys, uranium-platinum system—	184	Poetry, <i>see</i> American poetry.	
disposal from national stockpile by GSA, reports—	12178, 14538	POFI, <i>see</i> Pacific Ocean.	
metals report, quarterly—	2826, 11368	Pogoda, <i>see</i> Electronic computers.	
platinum-group metals—		Point, Robert H., relief—	14178
minerals yearbook chapter—	6660, 16717	Point Arguello to St. George Reef, Calif., light list—	4403
production, etc., 1958—	9347	Point Barrow, Alaska, marine mollusca—	15096
Platt National Park, general information—	9410	Point Conception, Calif., to Mexican border, coastal warning facilities chart—	15244
Platte River and Valley:		Point 4 program, <i>see</i> name of country with which agreement is made.	
drainage basins, snow courses and soil moisture stations, list—	5411	Point-sampling and live-sampling, probability theory, geometric implications, synthesis—	1700
snow surveys and water supply forecasts of drainage basins—	11485	Poisonous gases, <i>see</i> Gases.	
Play, experimental study of typological characteristics, of nervous system in children, USSR study—	14960	Poisons:	
Player, Nell C., relief—	14171	beryllium and rocket propellants, literature search—	11738
Plays, <i>see</i> Drama.		caustic poison act, notices of judgment—	6204
Pleocetus, <i>see</i> Bats.		military toxic agents with general toxic and resorptive action, Bulgaria—	1917
Plotting boards and plotting:		organophosphorus insecticides, dependence of toxicity on their chemical structure, USSR study—	9246
simulation tests of—		protect your family against poisoning—	441
horizontal display for high-altitude traffic control—	6122	threshold limit values for toxic chemicals, Air Force pamphlet—	4253
tactical airway system—	7698	toxicity of compounds tested against larvae of southern potato wireworm—	11594
Plum Creek, watershed program evaluation, progress, report—	4153	<i>see also</i> Lead poisoning—Sprays and spraying—also names of poisons.	
Plumbers, examination announcement—	5735	Polson's ratio, thin adhesive bonds, torsion and tension tests—	1679
Plumbers' supplies, plumbing fixtures, facts for industry—	2372, 7204, 10903	Polak, Henri, relief—	9961, 12065, 13910
Plumbing, engineering manual—	12612		

# JANUARY-DECEMBER

	Entry		Entry
Poland:		Poland—Continued	
agricultural economies, notes.....	16396	railroads, modernizing problem.....	1775
agricultural situation.....	7765	rural electric distribution systems,	
automatic telephone exchanges,		problems regarding extensions.....	671
profitability.....	796	selected economic translations.....	725,
cartographic data, status.....	6419	727, 730, 734, 735-754, 777-778,	
coal, development prospects for		1851, 1833, 1836, 5057-58, 5063,	
output and sale, 1960-75.....	1815	5066, 5083-84, 5095, 6449,	
coke industry and gaseous econ-		6458-59, 6474, 6504-6, 6535,	
omy, development plan on		6568, 6574, 10283, 10293, 10322,	
background of general power		13015, 13021, 13028, 13037,	
economy.....	685	13061, 13069, 13080-81, 13101-	
construction industry, ceramic and		102, 13110, 13118, 13128-129,	
wall materials, long range		13154, 13161, 13167, 13175,	
plans for supplying.....	1891	13200, 13212, 13220, 13227,	
educational systems.....	8945	14879, 14884, 14888, 14895,	
electric power—		14901, 14907, 16566, 16570	
demand for chemical industry,		17583, 17590-591, 17608-609,	
long-term development.....	687	17618.	
engineering and waste coal.....	682	selected political and sociological	
electric railroads, supply.....	675	translations.....	4985
employment problems today.....	853	selected sociological transla-	
epizootic and zoonotic diseases and		tions.....	6375, 17560
their control.....	1819	statistical bulletin.....	555
flooring materials problems.....	612	study, telephone offices and net-	
freight car turnover coefficient,		works, economic effectiveness	
calculating.....	3722	of investments and profit-	
fuel industry, present state and de-		ability.....	6420
velopment prospects.....	683	surplus agricultural commodities,	
fuels, utilization for power genera-		agreements.....	13624, 15204
tion and technical purposes.....	686	telecommunications service in 1958,	
gaseous fuels and raw materials,		results of performance and	
problems.....	684	outline of future trends of	
high voltage systems, need for em-		action.....	838
ploying series capacitors.....	673	telegraph communications prob-	
housing construction materials		lems.....	837
prospects in five-year plan.....	691	telephone services, local tasks.....	839
IGY expedition to Vietnam, litera-		town electrification problems.....	670
ture translations.....	6381	transportation information.....	588
industrial development in long-		United States exchange pro-	
range plan, 1961-75.....	692	grams.....	16203
investments in communications,		utilization of existing systems for	
concrete step in development of		operation at higher voltages.....	1814
economic research.....	836	viruses, biology.....	1877
iron and steel industry.....	680	visit of Vice-President Nixon, July-	
metallurgical industry, anticipated		Aug. 1959.....	17089
electric power demand.....	688	voltage line and station lightning	
military publications, review.....	676,	protection, economic evalua-	
	678, 712, 733, 5067	tion.....	674
ministry economic plan for 1958,		wire and wireless diffusion, effec-	
objectives, etc.....	846	tiveness of expenditures.....	627
nuclear energy, development, etc.....	690	Polar regions, see Antarctic regions.	
parcel operations, report.....	15972	Polaris (missile), see Missiles.	
political and sociological transla-		Polaris (star), see Pole star.	
tions.....	3656	Polarization (electricity):	
power engineering, technical prog-		effect on.....	
ress in development.....	855	cell characteristics and design.....	10533
power systems—		current density distribution of	
critical voltage levels as criterion		primary and secondary cells.....	10532
for planning.....	672	electrode and membrane polariza-	
electrical equipment, rated data		tion.....	13799
linked with other mid-European		interfacial, induced, geophysical	
countries.....	668	exploration, background ef-	
load dispatching problems.....	1806	fects, progress report, 1956-	
peak loads, methods of meeting		57.....	1391
demands.....	666	Polarization (radio):	
problems in production of flooring		polarimeter technique, description.....	2087
materials in 5-year plan.....	631	Polarization of particles, neutrons	
provincial press, summary.....	577,	from reactions $Li^7(p,n)Be^7$ and	
	579-581, 595-596, 1755, 1760,	$D(d,n)He^3$ .....	15398
	3649, 3659, 3662, 3668, 3675,	Pole star:	
	4976-77, 4987, 5002, 5011,	air almanac.....	1119, 6843, 10528, 17793
	6359-60, 6386, 6391, 10213,	ephemeris, 1959.....	905
	10221, 12802-805, 12807, 12817,	ephemeris, 1960.....	17669
	12819, 12822, 12824, 12843-844,	Poles, frame assemblies, performance	
	12849, 12851, 12870-871, 14826,	under test load.....	1680
	14828, 14831, 14835, 14839,	Police:	
	16519, 16522, 17518, 17529-630,	District of Columbia, band di-	
	17535A, 17537, 17544, 17548,	rector retirement compensa-	
	17556.	tion—	
public construction enterprise, its		law.....	15720
role and tasks.....	869	reports.....	8688, 16163

# INDEX, 1959

	Entry		Entry
<b>Police—Continued</b>		<b>Politics—Continued</b>	
International Criminal Police Organization, study report.....	8743	Communist China, selected translations.....	17611
Metropolitan police force, relief or retirement compensation of former members and their widows, widowers, and children, increase, report.....	16164	communist propaganda and use of U.S. mails, hearing.....	7635
Metropolitan police force retirement and disability act of D.C., make applicable to former members and their widows, widowers, and children—		Hatch act operation and enforcement investigation, report.....	1529
hearings.....	8727	new stage of political power of communes, translations from Communist China's publications.....	14886
report.....	8637	North Korea, political reports.....	698, 763, 5069, 6450, 6497, 13004, 13180.
National Zoological Park, salary increases, amend act—		political report of Politburo to 7th expanded plenary session of Central Committee of Indonesian Communist Party, Nov. 19, 1958.....	6472
law.....	15743	publications, China, translations.....	17535
reports.....	14272, 16090	publications of Communist China, translations.....	13221, 13229, 14886, 14889, 16509, 16537, 16558, 17554, 17592.
Police Department of D.C., examination announcement for policeman, discontinuance notice.....	5740	selected items from Soviet journals.....	1750, 1759, 3641, 3652-53, 5012, 5017, 6369, 7890, 9182, 9192, 9195, 10248.
salaries, 1954-58.....	888	selected translations on eastern Europe.....	598, 1758, 3650, 3656, 4970, 4985, 4997
social security coverage—		Soviet journals, selected translations.....	568
California, Kansas, North Dakota, Oklahoma and Vermont, law.....	15649	translations from China mainland press.....	1765, 3654, 4986, 6366, 9167, 9194, 10249
Oklahoma and Vermont, report.....	6027	world, analysis of current problems, USSR study.....	17519
United States Park Police relief or retirement compensation of former members, and their widows, widowers, and children, increase, report.....	16164	<i>see also</i> International relations.	
United States Park Police retirement and disability act, make applicable to former members and their widows, widowers, and children—		<b>Pollack:</b>	
hearings.....	8727	scales—	
report.....	8637	amino acid composition of protein and inorganic constituents of ash.....	427
White House force retirement and disability act make applicable to former members and their widows, widowers, and children—		nutritive value as determined by rat feeding tests.....	4861
hearings.....	8727	<b>Pollock, see</b> Pollack.	
reports.....	8637, 16164	Pollution of air, <i>see</i> Air pollution.	
<i>see also</i> Military police.		Pollution of streams, <i>see</i> Water pollution.	
<b>Poll</b> detention, <i>see</i> Arrest.		<b>Polyclads, Micropesian flatworms, further study.....</b>	5327
<b>Pollomyelitis:</b>		Polyelucine, content in tissues following transfusion, detection by histochemical method.....	7921
acute, death rates by age, color and sex, 1949-51.....	5331	Polycthemia, patients treated by radio-active phosphorus, character of blood changes, USSR study.....	12921
Institute of Infectious Diseases AMS USSR, results of scientific session.....	7909	Polydesmida, <i>see</i> Brachoria.	
vaccination results in USSR, study	5149	Polyester laminates, <i>see</i> Laminated materials.	
Pollomyelitis vaccine, live, problem, USSR studies.....	7955	Polyester resins, <i>see</i> Resins.	
Pollish-Czechoslovak conference of nuclear power, specialist.....	5119	Polyethyl methacrylate, tensile properties for testing machine crosshead velocities.....	13537
Pollishing, <i>see</i> Grinding and polishing.		<b>Polyethylene:</b>	
Political activity, <i>see</i> Politics.		dielectric strength at high frequencies, USSR study.....	6494
Political campaigns, <i>see</i> Elections.		supplement.....	7932
Political corruption:		tensile properties for testing machine crosshead velocities.....	13537
Federal elections act of 1950—		<i>see also</i> names of manufactured articles.	
report.....	12474	Polygons, formation of sorted patterns in gravel overlying melting ice surface.....	17381
views.....	12474	Polymerization, <i>see</i> Polymers and polymerization.	
<i>see also</i> Campaign expenditures.		Polymers and polymerization:	
Political parties, activities in Tibet and Inner Mongolia, 1958-59, translations from Communist China's publications.....	16537	degradation of polymers by ultraviolet irradiation.....	6858
Political rights of women, <i>see</i> Women.		derived from dihydroperfluorobutyl acrylate, description.....	3124
Political science, publications, price list.....	17032	high polymer chemistry Soviet abstracts.....	6540, 13034
Political studies (Chinese periodical), articles.....	9214, 10246, 13176		
Politics:			
China, translations of articles from China mainland press.....	556		



# JANUARY-DECEMBER

Entry	Entry
<b>Polymers and polymerization—Con.</b>	<b>Population—Continued</b>
inorganic polymer systems, development.....	States and outlying areas of U.S., estimates, 1950-56.....
inorganic structural adhesives, elevated temperature resistance research.....	Sukabumi, city and regency.....
organosilicate polymers, description and uses.....	United States—
principles of inorganic polymerization.....	estimates and components of change, 1950-59.....
telomerization, review of literature.....	estimates by age, color, and sex, 1956-58.....
Polymetallic mineralization of north-eastern part of south Altay.....	provisional estimates.....
Polymorphism, crystallographic and high temperature potentials of zirconia.....	7194, 9708, 11805, 13855-856
Polymorphism, see Polymorphism.	see also names of States, etc.
Polynomials, functions, constructive theory, collected works, 1905-30.....	<b>Pork:</b>
Polyploidy problem, evolutionary factor, etc., in organic world, USSR studies.....	price spreads.....
Polytetrafluoroethylene, stability and surface tension of teflon, dispersions in water.....	purchase specification requirements, approved by USDA.....
Polyurethanes, see Urethanes.	slaughtering, cutting and processing on farm.....
Pomegranates, production, use, value, 1957-58.....	Porosity, desorption dynamics of iodine from activated charcoal, USSR study.....
Ponca Creek, ground-water resources.....	Porous materials, adsorbents influence on form of adsorption isotherms of vapors, USSR study.....
Ponderosa pine, see Pine.	Port, see name of port, except when occurring as first word of name of town, etc.
Ponds, see Farm ponds.	Port Allen navigation lock, filling and emptying system, hydraulic model investigation.....
Pony express, founding, commemorative medal, report.....	Port Aransas-Corpus Christi Waterway:
Popcorn:	channel improvement, engineer report—
acreage, 1959.....	departmental edition.....
production, 1958.....	document edition.....
Poplar:	Port Arthur, Tex., port.....
rating for Melampsora leaf rust infection.....	Port Arthur-Dairen, China, rectification movement, report to 1st session of 8d people's Congress.....
timber, European production, significance for U.S.....	Port Isabel, Tex., port.....
Poplars, see Poplar.	Port Mansfield, channel improvement, report.....
Popper, Martin, proceedings against, citing for contempt, report.....	Port Orford cedar, see Cedar—Forests and forestry.
<b>Population:</b>	Port St. Joe, Fla., port.....
census, 1950—	Portable antenna mast, glide slope, CAA specification.....
special reports.....	Portland, Oreg.:
State of birth, corrections.....	electric facilities of area, map.....
census publications, price list.....	occupational wage survey—
civilian population for States and selected outlying areas, estimates, broad age groups, July 1, 1957.....	departmental edition.....
current population reports—	document edition.....
consumer income, series.....	Portland cement, see Cement.
13853, 17279	<b>Ports:</b>
labor force series.....	American, defense readiness (address).....
1466, 2354, 7193, 8445, 9707, 10885, 11804	customs, code classification, schedule D, changes.....
population characteristics, series.....	foreign, code classification.....
206, 3182-83, 4353, 5678, 13854	port series.....
population estimates, series.....	role in national economy, etc. (remarks).....
207, 3184-86, 4354-55, 5679, 7194, 8446, 9708, 11805, 13855-856, 17280.	United States, economic and defense role.....
special censuses series.....	see also names of ports or places where located.
208-210, 1467-68, 3187, 5680-85, 7195-97, 8447-52, 9709-11, 11806-808, 15467-469, 17281.	<b>Ports of entry and delivery, see Customs Service.</b>
distribution, urban and rural, 1950, national atlas sheet.....	<b>Portsmouth, N.H.:</b>
11812	naval shipyard, wage rates, regulating—
farm, estimates, 1958.....	hearing.....
3012	report.....
international statistics reports.....	<b>Portugal:</b>
7216, 8459, 13867-868	marking and labeling requirements.....
postcensal, composite method for estimating small areas by age, sex, and color.....	parcel post agreement.....
16963	sailing directions, change.....
projections for U.S., 1960-75—	<b>Position classification, see Classification.</b>
departmental edition.....	<b>Position-classification standards.....</b>
9288	2404, 10933
document edition.....	
8535	
school-age, by States, projections, 1950-63.....	
8446	
special censuses conducted by Bureau of Census, 1958.....	
5684	

# INDEX, 1959

	Entry
Position finding, balloons, accuracy of RDF position fixes in tracking.....	146
Position plotting, <i>see</i> Plotting boards and plotting.	
Possany, Stefan T., consultation with Un-American Activities Com- mittee.....	7488
Possessions of United States, <i>see</i> Out- lying possessions.	
Post Office and Civil Service Com- mittee, House:	
calendars.....	2458, 10989
hearings.....	1556,
5932-34, 7475-80, 8745-50,	
9919-20, 12303-306, 14348,	
15955-957, 17338.	
investigations and studies, matters within its jurisdiction—	
authorization, report.....	3297
expenses, report.....	3305
reports.....	306,
5869-70, 5886, 5889, 7383, 7400,	
7423, 7428, 8650, 9874, 12125,	
12185-86, 14230, 14315, 15789,	
15794, 15796, 15807, 15896.	
views.....	7428
Post Office and Civil Service Com- mittee, Senate:	
calendars.....	2476, 11009
clerical assistant, additional, re- port.....	3352
hearings.....	7643-44,
8908, 10053, 12565-566, 14575- 576, 16220-224.	
investigations and studies, postal service administration, etc., ex- penses, reports.....	4701, 4703
reports.....	3352,
4701, 6013, 7538, 7542, 7587-88,	
8828, 10008, 12395, 12410, 12426,	
12483, 12491, 14525-526, 14536,	
16081.	
views.....	12410
Post Office Department:	
acquisition of Railway Express Agency equipment and facili- ties, desirability, investigation, expenses, report.....	4701, 4703
annual report, 1958—	
departmental edition.....	2101
document edition.....	1519
appropriations, 1960—	
hearings.....	4631, 7603
law.....	9771
reports.....	5866, 8687, 8816
budget, 1960, amendment, proposal.....	4459
Bureaus of 3d and 4th Assistant Postmasters General, records, preliminary inventory.....	15091
campaign against obscene matter in mails (comment).....	17017
credit certain funds to postal reve- nues—	
hearing.....	7477
law.....	14024
reports.....	7383, 12491
future program (address).....	17013
information service IS series.....	1142-43,
4009, 6893, 8172-73, 10555	
mail order obscenity racket prob- lem, (comments).....	17018-19
mechanization and automation de- velopments (address).....	8169
methods handbook M series.....	17026
modernization program, post office for San Francisco Bay area.....	15150
our responsibilities and America's future (address).....	17028
pornographic and obscene materials through mails, suggestions against distribution (address).....	17027

	Entry
Post Office Department—Continued	
Postal Inspection Service problems and program to prevent misuse of mails in sale of obscenity (statement).....	8174
postal manual, 1954—	
issues.....	2879, 11418
changes to chap. 1 & 2—	2880, 11419
postal service news.....	2881, 11420
posters, commemorative stamps.....	9453,
10554, 13542-546, 15147-148,	
17012, 17014, 17016.	
problems, policies, and progress (address).....	17815
publications, list.....	17030
releases.....	2883, 11422
suggestions against distribution of pornographic and obscene ma- terial through mails (address).....	8171,
8177	
tax and mail privilege grants to philanthropies, hearings.....	1549
Post offices:	
directory, 1959.....	13547
1st class, stations and branches, list.....	13548
1st, 2d, and 3d class, exempt em- ployees from residence require- ment governing postmaster ap- pointments—	
hearing.....	12303
report.....	15794
manual, 1954—	
issues.....	2879, 11418
changes to chap. 1 & 2—	2880, 11419
modernization program—	
addresses.....	6890-92
how it creates new construction markets, study.....	15452
personnel handbook.....	2877, 11416
scope of mechanized post offices of tomorrow (talk).....	9456
<i>see also</i> names of places where lo- cated.	
Postage:	
educational, cultural, and library materials, clarify and make uniform law—	
hearings.....	5932, 14575
report.....	5886
odd sizes and shapes of mail mat- ter, revise charges—	
hearing.....	7475
law.....	11957
reports.....	7400, 8828
3rd class bulk mail rates, study, progress report (address).....	13823
Postage stamps:	
commemorative—	
dental health, dedication (ad- dress).....	17014
Ernst Reuter (address).....	17012
15-cent international airmail stamp.....	17016
4-cent American flag (poster).....	9453
4-cent and 8-cent Ernst Reuter, champion of liberty (poster).....	15148
4-cent dental health (poster).....	13542
4-cent petroleum industry cen- tennial (poster).....	13543
4-cent soil conservation (poster).....	13544
guide for selection.....	6893
Lincoln, ceremony (talks).....	5374, 9455
100th anniversary of statehood of Oregon (talk).....	5373
poster series.....	9453, 10554, 13542-546,
15147-148, 17012, 17014, 17016	
7-cent Balloon Jupiter airmail (poster).....	10554
7-cent Hawaii statehood, air- mail (poster).....	13545
soil conservation stamp dedica- tion (talk).....	15152
10-cent Pan American games (poster).....	13546

# JANUARY-DECEMBER

Entry	Entry
<b>Postage stamps—Continued</b>	<b>Posters—Continued</b>
commemorative—continued	DOD-P series..... 12586
2½-cent Bunker Hill Monument	Fish and Wildlife Service..... 17431
coll stamp (poster)..... 15147	Post Office Department, commemo-
John Jay, honoring first Chief Jus-	rative stamps..... 9453,
tice of Supreme Court (com-	10554, 13542-546, 15147-148,
ments)..... 1141	17012, 17014, 17016.
United States, 1847-1957, supple-	Selective Service System..... 5400
ment, 1958..... 6894	sold by Superintendent of Docu-
Postal bulletin, see Postal service.	ments, price list..... 6908
Postal delivery, see Postal service.	Postmaster General, see Post Office
Postal Inspection Service, see Post	Department.
Office Department.	Postmaster of House of Representa-
Postal rates, see Postage.	tives, see House of Represent-
Postal Savings System:	atives.
audit report, 1956-57..... 299	Postmasters:
discontinuance, hearing..... 8747	examination announcement..... 5732
report of operations, 1958..... 3278	major public relations programs
Postal service:	(address)..... 17815
administration, study, expenses, re-	residence requirements governing
port..... 4701, 4703	appointments, clarify law—
Alaska mailboat route between Se-	hearing..... 12303
ward and Nickolski, restrict—	report..... 15794
hearing..... 12566	training under Government em-
report..... 12483	ployees training act—
city delivery service, history..... 10555	hearing..... 5934
code of Federal regulations..... 6156	law..... 8518
cost ascertainment report, 1959..... 9454	reports..... 5869, 7587
field service compensation act of	Posts, wood preservatives in Missis-
1955, amend, hearing..... 15956	sippi, comparison..... 9097
German Democratic Republic, regu-	Potash:
lations..... 17532	in 1958..... 2003
improvement by modernization and	mine and refinery, electric-power-
mechanization of Washington,	distribution system, Duval
D.C. post office..... 8173	Sulphur & Potash Co., Carls-
improvement of mail service—	bad, N. Mex..... 16697
dedication of new post office site,	minerals yearbook chapter..... 13361
Providence, R.I. (addresses)..... 6889,	production, etc., 1959..... 17703
6898	sales increased in 1958 despite pro-
Operation Gateway, San Fran-	duction dip..... 9340
cisco area..... 15150	Potassium, radioactive, content in ur-
improvements (addresses)..... 6890-92,	ban sewage, USSR study..... 1930
8169, 8175	Potassium carbonates, equilibrium
information of interest to post of-	study..... 10458
fice employees (address)..... 8170	Potatoes:
mail routes, schedules—	acreage, yield, etc.—
Atlanta region..... 2102	by States and seasonal groups,
San Francisco region..... 15151	1957-58..... 15270
position descriptions and salary	estimates in hundredweight by
schedules..... 2877, 11416	States, 1866-1953..... 11653
postal bulletin..... 2878, 11417	flakes, new dehydrated mashed
postal service news..... 2878, 11420	potatoes..... 9589
prediction of success in Army	futures trading and open con-
postal courses..... 3	tracts..... 2429-30, 10962-963
requirements for disclosure on cir-	mechanical seed cutting and
culation of magazines—	handling..... 4152
hearing..... 8750	outlook for 1959 (statement)..... 1274
report..... 9874	precut seed pieces, healing during
rural delivery service from its be-	transit..... 13683
ginning..... 1143	production, Soviet abstracts..... 738, 3730
scheme—	rotten, cause of solanine poisoning,
California..... 17021	USSR study..... 6578
Maryland and District of Colum-	spring, acreage-marketing guides..... 17
bia..... 17022	storage, new ventilating system..... 34
Nevada..... 17023	summer and fall, acreage market-
West Virginia..... 4008	ing guides..... 4135
story of United States mails..... 4010	total stocks..... 2266, 10718
transportation—	winter, acreage marketing guides,
past and futures (remarks)..... 6895	1960..... 11559
progress of change (remarks)..... 6897	Potawatomi Indians:
railroads and motor carriers (re-	Citizen Band of Oklahoma and
marks)..... 6896	Prairie Band of Kansas, use of
Universal Postal Union, conven-	funds arising from judgment—
tion, final protocol, etc..... 17098	law..... 11981
see also International postal serv-	reports..... 8836, 12123
ice—Mail matter—Post offices.	Potential effects of St. Lawrence Sea-
Posters:	way on costs of transporting
Aeronautics Bureau, Navy..... 11557	grain..... 5550
Agricultural Marketing Service..... 15267	Potential of deformation forces and
Armed Forces Information and Ed-	its variation with variation of
ucation Office..... 8377	rotation regime of ellipsoid..... 10263
Army Department..... 8386, 11707	Potholes East Canal, design and con-
code of ethics for Government serv-	struction, technical record..... 4044
ice..... 9802	
Defense Department..... 12586	

# INDEX, 1959

	Entry		Entry
Potomac River and Valley :		Poultry—Continued	
George Mason Memorial Bridge, designating—		slaughtering, humane method, ARS kit	7042
law	11973	supplies, outlook (statement)	5400
reports	5893, 10014	USDA grades, how to buy	15314
George Washington's river, water pollution film	8189	used in canned and other processed foods, eviscerated, Federal inspection, monthly reports	2257, 10709
water pollution problems of basin, staff report	343	see also Chickens—Diseases of poultry—Food for poultry—Turkey keys.	
Pottawatomie County, Kans., geology and construction material resources	6285	Poultry mites, see Chicken mites.	
Potter County, Pa., soil survey	2137	Poultry processing plants, see Poultry.	
Poultry :		Pound River :	
and products—		John W. Flannagan Dam and Reservoir designate—	
examination and evaluation, inspection recommendations, orderly marketing and adequate supply, hearing	14681	law	14044
animal quarantine laws, clarify report	8849	reports	9852, 14479
assembling in New England	9569	Pounds, lobster holding, role in Maine industry	12682
basic problem of over-production (address)	17308	Powder metallurgy, see Metallurgy.	
broiler industry, stabilize through marketing regulations, hearing	14326	Powder-post beetles, see Beetles.	
business, Federal wage-hour law application	5458	Powders :	
diversion program, hearings	14326	powder-form bodies, specific surface determination on basis of resistance to filtration of rarefied air	1907
eggs and poultry, conference report	15289	research, explosive press as tool	17004
foreign agriculture circulars	2643, 11182	Power :	
grading manual	8305	conservation, code of Federal regulations	6139
hatchery production	2246, 10698	heat power engineering (USSR periodical), abstracts	8436, 10800
health (address)	13715	motive power for railroads	2703, 11242
ice-packing, methods and equipment	1311	Poland, development plan of coke industry and gaseous economy	685
industry		power engineer (USSR periodical), abstracts	10853
economic statistics through 1957	8339	power engineering bulletin (USSR periodical), abstracts	10854
small business problems, report	1538	statistics of class 1 railroads	2702, 11241
inspection, consumer's safeguard	17206	supply voltages for electronic equipment, military standard	6089
inspection services, appropriations, 1960, Agriculture Dept., hearings	7444	see also Air power—Atomic energy—Electricity—Solar energy—Water power.	
interstate movement, enforcement of regulations, guide	15292	Power (Balance of), see Balance of power.	
interstate transportation, code of Federal regulations	9597	Power boats, see Motor boats.	
inventory, 1959	3024	Power boilers, see Boilers.	
mandatory inspection act review (talk)	35	Power plants :	
market statistics, 1958	8340	aircraft—	
monorail conveyors used in eviscerating	5477	ceramic coatings with high reflectivities and emissivities	15361
national improvement plan—changes, conference report	1291	F-89 fire-extinguishing studies	4810
hatcheries and dealers participating	3036, 3037, 5508, 8294	Boeing 707, ignition hazards and fire resistance study	4809
hatchery and flock participation, tables	49, 17184	coal ash from, determination of germanium	5185
provisions	4187	maintenance, repair, and alteration, civil aeronautics manuals	1616, 6117, 7689
record of performance and performance test summary, 1957-58	7035	see also Electric power plants—Nuclear reactor power plants—steam power plants.	
newcastle disease, how to control—ordinance, Public Health Service recommendations, supplement	4025	Power reactors, see Reactors (atomic).	
outlook for 1959 (statement)	1266	Power transformers, see Electric transformers.	
plants operating under poultry inspection and grading programs, list	7064	Power transmissions, mechanical equipment, Federal supply schedule	9017
poultry and egg situation	2217, 10672	Powerplants, see Power plants.	
price problems of industry, hearings	12267, 14326	Pozar, Aurelia M, relief	5955, 8580, 11922
processing plants, economies of scale	11573	Pozzolan cement, see Cement.	
processors, irrigation as low cost method of sewage disposal	5545	PPA series	2829, 11371
products, prospects for foreign trade	3521	Practical nurses, see Nurses and nursing.	
publications, price list	9461	Practical steps (Chinese periodical) : articles	13182
		Prairie Band of Potawatomi Indians, see Potawatomi Indians.	



# JANUARY-DECEMBER

	Entry
Prairie Dog Town Fork of Red River : water resources development feasibility, study— law reports	14022 5837, 12495
Prayer Room in United States Capitol, article on, print additional copies, report	4566
PRB, see Personnel Research Branch.	
Pre-Aitoka rocks of northern Arkansas	14755
Precious metals, 4th conference on spectral method of analysis, report	1776
Precious stones for jewelry industry from chrysotiles of Yakutiya's kimberlite pipes	1790
Precipitation : atmospheric, chemical composition, in USSR	5140
California maximum	8272
California, monthly and seasonal— data from storage-gage stations	2173 9545
hourly data, by States, etc.	2996, 11549
Tennessee River basin	2968, 11516
see also Hall—Rain.	
Precision instruments : preferred components	5362
USSR equipment manufacture, translations	7888
Preconversion of oxide cathodes	10534
Precooling, see Cooling.	
Prediction (psychology) : Air Force officer procurement, variables contributing to panel scores	13779
Air Force training and proficiency criteria from Armed Forces selection tests	17232
aircraft observer training success, validity of AFOQT	8123
cold weather military maneuvers, enlisted performance	4
creativity in research scientists— enlistment screening test for predicting Armed Forces qualification test performance	5605 5470
job proficiency of aircraft mechanics, qualifications data analysis	9643
long-term, officer effectiveness from aptitude tests	5608
spatial abilities and selected elements of Air Force technical jobs	7124
success in— administration and machine accounting jobs	3002
aircraft maintenance courses	1242
Army helicopter pilot trainees— flight evaluations	1240 4127, 4129
selection evaluation	1239
electronics repair jobs	2
military police courses	3
personnel and administration courses	1243
precision and automotive maintenance jobs	1
radio repair courses	11555
tests, non-linear methods of combining	
Prefabricated brick blocks, see Bricks.	
Prefabricated houses, see Houses.	
Preferred precision instrument components	5362
Pregnancy, complications, death rates by age, color, and sex, 1949-51	15107
Premature baby, see Infants.	
Premium pay, see Hours of labor.	
Premiums (insurance), see Life insurance.	

	Entry
Prepackaging : Anjou pears in molded pulpboard trays at point of production, experimental procedure (paper)	11579
commodities, package checking, manual for weights and measures officials	6803
cranberries, maintenance of quality during retail display	7059
firm-ripe peaches, report	9570
fresh produce, practices	11634
Preparation of tungsten carbide-uranium compacts of high density and high hardness	1140
Preparedness, see National defense.	
Preservation of documents by lamination	17770
Preservation of food, see Food.	
Preservation of materials, packing and marking for shipment, specification, list	5602
Preservation of Memorabilia of Senate, Special Committee on, Senate, continuation, authorization, report	4708
Preservation of wood, see Wood.	
Preservatives, see Wood preservatives.	
President Adams Parkway : feasibility of establishing— hearing	17339
law reports	15693
President of United States :— reports	12147, 14542
appropriations, 1960, general Government matters	7453, 10026
hearings	11966
law reports	7432, 9996
appropriations, 1960, special international program— hearings	7452
law	11971
reports	9998, 12130
authority to release stockpiled materials, opinion of Attorney General	5158
authority to use troops in Little Rock, Ark., school desegregation case, opinion of Attorney General	5156
code of Federal regulations	12655
documents, published 1958	3468
Executive orders, published 1958	3468
proclamations, published 1958	3468
economic report— departmental edition	2104
document edition	1527
joint committee report on	4730
joint committee views on	4730
Eisenhower's European trip, Aug. Sept., 1959	17090
legislative recommendations	8768
messages, see, in main alphabet, subject of message.	
papers of Dwight D. Eisenhower	1626, 6160, 17412
power to withhold information from Congress, memorandums of Attorney General	8902
releases—General	2885, 11425
safety award presentations to Commerce Dept. employees for distinguished Federal civilian service (remarks)	9749
state of the Union address	1518
terms of office, amend Constitution, hearings	12558
veto messages— Alaska mineral lands leasing, increase acreage	14114
construction of public works on rivers and harbors, analysis	7481
Eber Bros. Wine & Liquor Corp.— housing act	15776 9943, 15991
hearings	12528

# INDEX, 1959

	Entry
President of United States—Con.	
veto messages—continued	
Nakamura, Harry H.	12333
public works appropriations bills, 1960.	15773-774
Rural Electrification Administration loans.	7499
tobacco price support.	9941
wheat marketing quotas and price supports.	9942
Presidential Study Commission on Problems and Potentialities of the Blind, establish, hearings.	7460, 8728
Presidential Study Commission on Problems of the Blind, establish, hearings.	7460, 8728
President's Cabinet Committee on Price Stability for Economic Growth:	
interim report.	17816
statements.	17817-818, 17820
President's Citizens Advisory Committee on Fitness of American Youth, report of 2d annual conference.	1144
President's Committee for Hungarian Refugee Relief, organization and work.	5375
President's Committee on Employment of the Physically Handicapped:	
equality for the handicapped program guide, 1959-60.	13281
minutes of meeting, 1958.	3809
minutes of meeting, 1959.	16655
performance story of the handicapped.	2731, 11268
releases.	2733, 11270
President's Committee on Government Contracts:	
equal job opportunity works everywhere.	8179
newsletters.	2884, 11424
releases.	11423
President's Committee on Government Employment Policy, report.	13551
President's Committee on Migratory Labor, migratory labor notes.	2730, 11267
President's Committee on Scientists and Engineers:	
final report.	15154
interim report.	15155
President's Committee to Study Military Assistance Program:	
composite report.	15153
composite report, supplement—	
departmental edition.	15153
document edition.	14116
final report—	
departmental edition.	15156
document edition.	14115
preliminary conclusions—	
departmental edition.	6899
document edition.	5943
2d interim report—	
departmental edition.	10577
document edition.	9809
3d interim report.	13550
President's Council on Youth Fitness: community project, what community can do for fitness.	8178
report of 2d annual conference.	1144
youth fitness and the future.	17029
President's reorganization plans, see Government reorganization plans.	
President's Science Advisory Committee, reports.	2106, 10556

	Entry
Press:	
Bulgarian provincial—	
biweekly report.	18521, 17553
summary.	3669, 3673-74, 4978-80, 4991, 4999, 5003, 5006, 5015, 6349, 6378-79, 10211, 10214, 10222, 10225-226, 12806, 12810, 12818, 12823, 12827, 12829, 12853, 12863, 12876, 12904, 14827, 14841, 16524, 17553.
China mainland, political articles, translations.	1765, 3654, 4986, 6366, 9167, 9194, 10249
communist activity in mass communications, hearing.	8900
Czechoslovak provincial, summary.	1835, 5097, 6475, 10287, 10305, 12996, 13014, 13099, 13111, 13125, 13166, 13169, 16504, 1677, 17602.
Hungarian central, review, June 13-19, 1958.	564
Hungarian provincial, summary.	713, 715, 750-752, 779, 1834, 5051, 5062, 6454, 6460, 10292, 10299, 10308, 12995, 13013, 13026, 13039, 13059, 13097, 13112, 13125, 13155, 13179, 13191, 14855, 14893, 14897, 14908, 16569, 16578, 17589, 17607, 17622.
Polish provincial summary.	577, 579-581, 595-596, 1755, 1760, 3649, 3659, 3662-3668, 3675, 4976-77, 4987, 5002, 5011, 6359-60, 6386, 6391, 10213, 10221, 12802-805, 12807, 12817, 12819, 12822, 12824, 12843-844, 12849, 12851, 12870-871, 14826, 14828, 14831, 14835, 14839, 16519, 16522, 17518, 17529, 530, 17535A, 17537, 17544, 17548, 17556.
Rumanian provincial, summary.	568, 570-572, 584, 597, 3678, 5004, 6352, 6367, 6372, 6380, 6383, 6396, 10212, 10224, 12809, 12812, 12815, 12820, 12825, 12841-842, 12854-855, 12864, 12875, 12887, 14808, 14821, 14824, 14834, 14837, 16528, 17517, 17538, 17549.
see also Liberty of the press.	
Press releases, see names of offices issuing releases.	
Presses, see Explosive presses—Printing presses.	
Pressmen, examination announcement, amendment.	15516
Pressure:	
base, of plug nozzles at Mach 0.9, methods to increase, investigation.	1016
behind pointed-up wings, analysis of studies.	13383
chordwise, distributions over airfoils at transonic Mach numbers to 1.25.	10502
corrosive cracking of austenitic steels.	1927
distributions—	
hypersonic speeds, effects of boundary-layer displacement and leading-edge bluntness, errata.	8074
investigation of aerodynamic characteristics of body or revolution in vicinity of reflection in vicinity of reflection plane at Mach nos. 1.41 and 2.01.	2042
measurement on 2-inch-diameter blunt bodies.	5259
over blunt bodies with cross sections at Mach number of 4.95.	16925

# JANUARY-DECEMBER

	Entry
<b>Pressure—Continued</b>	
distributions—continued	
spoller and spoller-slit-deflector on sweptback wing-fuselage model, investigation.....	1053
sweptback wing configurations with blowing flaps and wing leading edge.....	1078
thin 45° sweptback highly tapered wing combination with basic and indented bodies.....	1074
transonic speeds for bumpy and indented midsections of basic parabolic-arc body.....	3927
flight determination, scoop inlets located at maximum-body-diameter station, at Mach numbers from 0.8 to 1.8.....	1050
flight-determined measurements over wing of Douglas D-558-2 research airplane.....	13410
fluctuations on flat plate and cylinder in slipstream of hovering rotor, investigation.....	16916
high, effect on performance of tubular turbojet combustor.....	13400
intraocular, high-frequency tonometer for measuring and recording, USSR study.....	16595
low, performance of different diameter experimental combustor liners.....	6698
measurements on ogive-cylinder body at Mach number 4.04.....	6726
nose inlets, characteristics.....	5225
recovery—	
auxiliary inlets at transonic speeds.....	16867
effects of lip bluntness and shape.....	16825
2-dimensional supersonic inlets at Mach number of 2.01, investigation.....	15062
rise required for incipient separation of turbulent boundary layers in 2-dimensional supersonic flow.....	5268
static, measurement on aircraft surface—	8062
around elliptical spinner, flight investigation.....	3929
method for calculating on blunt plates in hypersonic flow.....	16898
total-pressure loss for tubular turbojet combustion—	
theoretical analysis.....	8064
with tapered liners.....	3937
<i>see also</i> Atmospheric pressure.	
Pressure apparatus, <i>see</i> Suction and pressure apparatus.	
Pressure measuring systems, <i>see</i> Tonometer.	
Pressurized water reactors, <i>see</i> Reactors (atomic).	
Preston County, W. Va., soil survey.....	17850
Prevention of accidents, <i>see</i> Accidents—Mine accidents.	
Pribalkhash'Ye, western cassiterite-sulfide mineralization, geological information.....	1779
Price, Edwin R., nomination hearing.....	8906
Price Administration Office, Information Dept., records, preliminary inventory.....	16935
Price discrimination, <i>see</i> Prices.	
Price lists, <i>see</i> Government publications—Periodicals—also subjects.	
Price supports, <i>see</i> Prices — also names of commodities, etc.	
Prices:	
agricultural prices (periodical)....	2191, 10648

	Entry
<b>Prices—Continued</b>	
arithmetic for small business managers.....	6930
consumer price index.....	11272
behavior in periods of business recovery.....	10402
components, relative importance, technical note.....	16665
monthly reports.....	2735, 2748, 11285
selected items and groups.....	2736, 11273
short description.....	9292
consumer, United States, 1953-58, trends and indexes—	
departmental edition.....	13291
document edition.....	12045
crop values, season average prices, value productions, 1957-58.....	3020
erratas.....	7014-15
demand and price situation.....	10657
developments in agricultural marketing spreads.....	9572
discrimination in distribution of dairy products, reports.....	1535
additional copies, report.....	7370
discrimination, justification to meet competition, hearings.....	12560
employment, growth and price levels—	
hearings.....	7319, 8525, 12031, 15754, 17317
questions on monetary policy and debt management.....	15755
study papers.....	15756, 17318
fair trade, amend Federal Trade Commission act—	
hearings.....	332, 7470
report.....	9837
views.....	9837
farm prices, general information on how determined and why they change.....	7047
FTC and guides against deceptive pricing.....	9492
functional discounts to wholesalers, amend Clayton act, hearings.....	12300
historical and comparative rates, hearings.....	7319
historical record.....	17818
index numbers—	
daily, and spot primary market prices.....	2749, 11286
hydraulic turbine industry.....	2751, 11290
indexes and statistics produced by Labor Statistics Bureau as related to users interpretations (address).....	10406
indexes, department stores.....	9293
manufacturer through own retail outlets, etc., equalize, hearings.....	15948
money supply changes, influence, hearings.....	12031
present trends after 1957-58 recession (address).....	1975
price support programs—	
active and announced.....	2423, 10954
charts and tables.....	2421, 10952
price supports—	
administration proposals, hearings.....	7434, 7599
relation to percentage during immediately preceding years, message from President.....	5810
statutes, compilation.....	3048
use of sec. 32 of AAA act funds—	
hearings.....	14329, 15935
report.....	15850
pricing eggs in central markets.....	4138
proposed increases, policies in President's program, amend employment act—	
hearings.....	7467
report.....	9848
views.....	9848

# INDEX, 1959

	Entry		Entry
Prices—Continued		Prints:	
relationship to economic stability		art works, copyrighted.....	4752, 7649
and growth, hearings.....	3261	commercial, copyrighted.....	346, 7650
Robinson-Patman act, affirm na-		leaf printing, description.....	8124
tional policy, etc., hearings.....	12300	Prints, National Exhibition of, see	
stable, to promote prosperity.....	17817	National Exhibition of Prints.	
wholesale—		Prioria copalifera, see Cativo.	
frequency of change, study of		Priorities:	
flexibility.....	3260	television, UHF-VHF allocations	
index, by commodity group.....	889-903	problems—	
index, monthly.....	2760, 11299	ad hoc advisory committee re-	
index numbers.....	2580, 11117	port.....	6066
index, summary, 1957.....	904	hearings.....	6067
index, weekly.....	2759, 11298	views.....	6066
prices and price indexes—		Prisms, glass, use with staff com-	
1958 departmental edition.....	16659	pass for estimating basal area	
1958 document edition.....	15764	of timber.....	478
by commodity group.....	889-903	Prisoners, see Military prisoners—	
monthly.....	2745, 11282	Prisons and prisoners.	
see also Inflation (finance)—also		Prisoners of war:	
names of commodities.		Korean hostilities, relief of mem-	
Pricing policy, see Prices.		bers of Armed Forces or sur-	
Primary flying.....	9031	vivors.....	5819, 5988, 7299
Primates, conditioned inhibition,		U.S. fighting man's code.....	15372
USSR study.....	5129	Prisons and prisoners:	
Primavera, foreign wood, descrip-		Air Force confinement facilities,	
tion, etc.....	7817	AF manual.....	1342
Primers (Indian):		Atlantian (periodical).....	11426
Billy black lamb.....	14780	border sentinel.....	2887, 11427
Primitive areas, see Wilderness areas.		code of Federal regulations.....	4820
Prince Georges County, Md., civil de-		cagle (periodical).....	2888, 11428
fense action guide.....	17294	island lantern (periodical).....	2889, 11429
Prince William Forest Park, general		national prisoner statistics.....	2890, 11430
information.....	16967	new era (periodical).....	11431
Printed circuits:		prisoners in States and Federal in-	
chemical-resistant silk screen inks		stitutions, 1958.....	8180
for manufacture of printed cir-		see also Penitentiaries.	
cuits.....	16982	Prisons Bureau, report, 1958.....	8180
standards and test procedures,		Private laws, see Law.	
preparation.....	3126, 15364	Private property, see Property.	
Printer (photographic device):		Probabilities (mathematics):	
PH-508/PF and photographic con-		analysis applicable to water-supply	
tact printer PH/508A/PF and		problem.....	3602
PH/508B/PF, technical man-		theory of probability and its appli-	
ual.....	9656	cations (USSR periodical), ab-	
Printer proofreaders, see Proofread-		stracts.....	10871
ers.		Probability studies on incendiarity of	
Printers:		permissible explosives, effect	
hand compositor, examination an-		of small percentages of sodium	
nouncement, amendment.....	15515	chloride.....	9851
monotype keyboard and slug ma-		Probation:	
chine operator, examination		and denial orders currently affect-	
announcement.....	266	ing export privileges of person	
amendment.....	15515	or firm.....	7767, 17436
Printing:		Federal probation (period-	
commercial, industry, outlook for		ical).....	2186, 10643
1959 and review of 1958.....	1438	Problem solving, application of tech-	
industry, economic summary,		niques to human relations	
monthly.....	2333, 10794	problems.....	4249
industry, location of plants by		Problems—	
county and employment size.....	5701	administration of Taft-Hartley	
industry, union wages and hours—		act, new amendments.....	17779
departmental edition.....	13288	agricultural surpluses and deficits	
document edition.....	12040	in Near East.....	4869
see also Intaglio printing—Offset		classification of blood substitutes,	
printing — Phototypesetting		USSR.....	6487
machine—Public printing and		heat transfer during change of	
binding.		state, articles.....	1376
Printing ink, see Thermocolors.		modernizing traction on PKP.....	1775
Printing Joint Committee:		telegraph communications, Poland.....	837
Government paper specification		Procedures, see Administrative man-	
standards.....	12323	agement.	
Government printing and binding		Proceedings of National Museum.....	1108,
regulations.....	9934	2063-64, 5326-27, 6816-17, 8109,	
Printing machinery, high-speed elec-		9408-10, 13468-469, 15096-98,	
tronic printer for digital com-		16953, 17782.	
puter output.....	15363	title pages, etc.....	9409-10
see also Printing presses.		Proceedings of 1957 fast reactor infor-	
Printing offices, workers, examina-		mation meeting, held at Chi-	
tion announcement.....	13881	cago, Ill., Nov. 20-21, 1957.....	7161
Printing presses, offset, new fabric		Processing of food, see names of foods	
for covering wet rollers, USSR		processed.	
study.....	6616	Proclamations, see President of	
		United States.	



# JANUARY-DECEMBER

Entry		Entry	
Procurement, <i>see</i> Air Force—Armed Forces—Army—Defense Department—Government supplies—Military aid—Military supplies—Navy— <i>also</i> names of substances procured.		Productivity, <i>see</i> Production.	
Produce, <i>see</i> Agricultural products.		Products, <i>see</i> Agricultural products—Commercial products.	
Production:		Professional assistants:	
Communist China—		Foreign Relations Committee, additional staff member, reports...	3348, 3361
initiation of socialism's great movement.....	586	Labor and Public Welfare Committee, Senate, report.....	3377
theories on productivity, translations from political and sociological publications.....	13221	Professional conservationist of tomorrow (talk).....	2136
concept of productivity and aims of national centers.....	1729	Professional papers, Geological Survey.....	518-519, 1714, 3604, 4930, 6289-95, 7850-56, 9119-21, 10192-193, 12767-770, 14754-756, 16469, 17492.
data relating to coal mining injury experience.....	919	Professions, publications, price list.....	9460
defense production act—		Proficiency tests, <i>see</i> Mental tests.	
progress report 42, hearing....	15752	Profile of Tennessee Valley States, some characteristics and general trends.....	2164
progress report 43, report.....	17315	Profit:	
voluntary agreements program, Attorney General's reports.....	1567, 4788, 17351	air-drying lumber to increase mill profits, study.....	3557
development law of Panama.....	455	industry, planning of costs and profit formation, Czechoslovakia.....	1914
expenses of farm operators, 1949-57.....	19	large corporations.....	2591, 11128
frontiers, 20 years of progress Pacific Northwest exhibit of business opportunities and technology.....	10546	local automatic exchanges, Poland, rates of return for identical companies in selected industries, FTC report.....	796
historical and comparative rates, hearings.....	7319	U.S., effect of private foreign investment, hearings.....	12677
indexes and statistics produced by Labor Statistics Bureau as related to users interpretations (address).....	10406	Profit sharing, tax exemption, procedures, and guides for qualification under internal revenue code.....	16196
indexes, census of manufactures, 1954.....	5713	Program aid series.....	109, 1319-20, 3075-76, 4189, 8331, 9614-16, 13737-738, 15327, 17206.
announcement and order form.....	7190	Program planning and execution (address).....	3041
industry, planning of costs and profit formation, Czechoslovakia.....	1914	Progress and economic stabilization (remarks).....	7730
motion pictures and filmstrips selected for use abroad, catalog.....	17149	Progress and human dignity (address).....	1196
national defense, report.....	3346	Progress in medical research on air pollution.....	4027
North Vietnam, realization of plan.....	6432	Progress in Missouri River Basin.....	2681, 11220
output per man-hour—		Progress of chemistry (USSR periodical), abstracts.....	10855
labor and nonlabor payments, 1947-58, indexes.....	13292	Progress of Mathematical sciences (USSR periodical), abstracts.....	10856
selected industries, 1919-58, indexes.....	9305	Progress of physical sciences (USSR periodical), abstracts.....	7183, 10857
productivity, what it is and how it is measured (address).....	9312	Progressive fish culturist.....	2625
research reports.....	111-112, 1321, 4190-91, 5553, 7067, 8332, 9617, 13739-740, 17207-208.	Project Matter horn (nuclear physics):	
Shantung people's commune, control regulations.....	6387	quarterly report.....	17253
teams, how different from producer cooperatives and handicraft producer cooperatives in North Vietnam.....	4967	Project Mercury (man-in-space program):	
U.S., 1958, exports in relation to comparisons for previous years.....	16425	meeting with astronauts, hearing..	14354
USSR industrial labor productivity levels, comparison with those of principal capitalist countries, study.....	6530	Project prairie grass:	
<i>see also</i> names or classes of commodities.		field program in diffusion..	1352-53, 17224
Production credit associations:		gas diffusion concentration data analyses, sampler spacing effect.....	5598
farmers build own system, 1933-58, operations, 1958, summary.....	395, 6111	Project skyline (thunderstorm analysis).....	14722
rules and regulations.....	17391	Project space track (orbit observations).....	7072
Production equipment:		Project square peg (job assignment program).....	3129
grocery warehouse layout and equipment for maximum productivity.....	11638	Project turnkey post office.....	6889, 6892, 6898
improved device for formation of superfine, thermoplastic fibers, description, etc.....	8147	Promedol, and isopromedol, analgesic and parturifacient effects, USSR study.....	9244
		The promised land (address).....	8499

# INDEX, 1959

	Entry		Entry
Promotions:		Propellers—Continued	
Air Force officers, improve opportunity for promotion to grade of major—		slipstream—	
hearing—	16193	downwash from VTOL aircraft starts surface erosion of terrain—	16893
law—	15700	wind-tunnel tests of airplane model with unswept, aspect-ratio-10 wing and blowing flaps—	1087, 16874
reports—	12162, 12202, 14540	supersonic—	
armed services regular officers, amend U.S. Code, hearing—	12527	blade torsional deflection, measurement and calculation—	1033
building better programs—	261	stall-flutter at positive and negative thrust, wind-tunnel investigation—	9366
Navy and Marine Corps officers, improve opportunities—		transonic—	
hearings—	4633, 10030	turbine driven, designed for minimum noise, flight performance—	9372
law—	14010	turbine driven under static conditions, noise survey—	8084
reports—	4607, 12473	vibratory stresses, flight measurements—	1098
Proofreaders:		wing-flap configurations, vertical-short-take-off and landing airplanes, estimating lift and drag characteristics—	5264
printer, examination announcement—	267	Properdin, isolation and data on its chemical composition, USSR study—	1659
amendment—	15515	Property:	
Propaganda, techniques, etc., in Vietnam—	6590	community, State laws effect on veterans benefits and pensions, opinion of Attorney General—	3808
see also American propaganda—Communism.		concealment of assets in bankruptcy, reports—	7413, 16162
Propagation:		damage claims—	
electromagnetic waves—		by military personnel, authority to settle, report—	5885
in plasma, theory—	5638	proposed appropriation to pay—	4468, 9808, 15988, 15994
in tapered, bent and loaded waveguides, USSR study—	17581	interests of husband and wife in certain actions arising in D.C., Domestic Relations Branch of Municipal Court to adjudicate—	
radiation waves, feasibility of determining by radar method distribution functions of scatterers on agitated sea surface, USSR study—	10330	law—	15622
radio waves, determination of distribution of scattering elements on agitated sea surface, USSR study—	13040	reports—	14464, 15828
tuber-propagated plant patents, report—	16151	taxable values in United States—	9705
Propanes, fuel, performance of annular turbojet combustor having reduced pressure losses—	2028	see also Personal property—Public property—Real estate—Restrictions on alienation—Surplus property.	
Propellants:		Property accounting, see Accounts and accounting.	
performance, vaporization and heat-transfer rates, rocket-engine experiments—	3946	Property rights:	
primary, comparison of hydrazine as turbine drive fluid for hydrogen altitude stage rockets—	17742	family and property law, women—	
rocket—		Maryland—	9550
effects of design parameters on regenerative-cooling capabilities, analysis—	16896	North Carolina—	10637
rocket program (address)—	6679	Oregon—	9551
toxicity and other hazards, literature search—	11738	industrial, licensing in France—	14704
vaporization for rocket engine design—	16895	Prophylactic and therapeutic action of somatotrophic hormone in radiation affection, USSR—	3737
see also Fuel.		Prophylaxis of radiation sickness of intrauterinely-irradiated fetus, USSR—	10353
Propellers:		Propulsion:	
aircraft—		aerodynamic control of supersonic inlets for optimum performance—	6711
airworthiness, civil aeronautics manual—	16288	aircraft nuclear program—	
camber effects on characteristics—	16847	hearing—	15748
facilitate financing—		report—	15749
law—	11968	aircraft reactor experiment operation—	9661
reports—	7560, 8701	dynamics of supersonic inlet with adjustable bypass in combination with J34 turbo-jet engine—	5239
facts for industry—	2373, 10904	marine, interim studies of OMR type cores—	5646
semispan wing with fan rotating in plane of wing, wind-tunnel tests—	17744	merchant ships, feasibility of using closed cycle boiling water reactor, investigation—	5642-43
specifications—	4790, 11047		
supersonic, 3-blade, wind-tunnel investigation of aerodynamic characteristics—	8066		
diameter, ratio to wing chord with addition of slots, effect on aerodynamic characteristics of vtol configuration—	15074		
free-space oscillating pressures, measurements in vicinity, at flight Mach numbers to 0.72—	8067		
maintenance, repair, and alteration, civil aeronautics manual—	220, 1616, 6117, 7689		

	Entry		Entry
<b>Propulsion—Continued</b>		<b>Proteins—Continued</b>	
supersonic bombers, turbojet engine for, analysis.....	13398	serum, restoration in irradiated dogs after hemorrhage, USSR study.....	6591
supersonic tunnel, scavenge of 6-inch diameter ram-jet exhaust in Mach 3.1.....	3895	topography in central nervous system, USSR study.....	14922
systems for space, requirements for development—		<i>see also</i> Nucleoproteins.	
hearings.....	9927	Protons, energy, etc., resonance tables.....	8153
hearings, additional copies, report.....	15904	Providence, R.I.: electric facilities of area, map.....	16335
reports.....	14351, 15864	post office—	
<b>Prospecting:</b>		automation and mechanization program.....	6892
contributions to geochemical prospecting for minerals (series).....	506	dedication of site (address).....	6889, 6898
electric, by telluric currents method, USSR studies.....	7918	Province of Gulf of Guinea, <i>see</i> Spanish Guinea.	
gas fields, USSR.....	6428	<b>Proving grounds, Bahamas</b> long range, Ascension Island sites, administrative arrangements agreement with Great Britain.....	17125
geochemical—		<b>Provo River project</b> , land acquired for Aqueduct Division, conveyance to Metropolitan Water District of Salt Lake City, report.....	14220
Bullwhacker mine area, Eureka District, Nev.....	506	<b>Provost marshal, activities</b> , Air Force manual.....	1342-43
ore deposits, book review.....	7937	<b>Prunes</b> , production, use, value, 1957-58.....	9582
use of heavy-mineral concentrates in locating tungsten deposits.....	3603	<b>Pruning:</b>	
geologic, relationship between exploration and surveying.....	5154	hardy fruit plants.....	3054
geological, methods of conducting, generalization of experience conference results.....	813	pine, longleaf, boosts survival.....	10184
geophysical methods, USSR.....	1903	<b>Prychodko, Nicholas</b> , consultation with staff of Un-American Activities Committee.....	15974
oil and gas—		<b>Psittacosis</b> , resistance of ornithosis-psittacosis virus to action of physicochemical agents, USSR study.....	16601
buried structures, features, USSR, study.....	6430	<b>Psychiatric consultation</b> in public child welfare agency, report of project.....	5717
central Asia.....	6429	<b>Psychiatric nurses</b> , <i>see</i> Nurses and nursing.	
geological problems, 1959-65, USSR studies.....	6427	<b>Psychiatric patients</b> , <i>see</i> Mentally ill.	
phosphate on public lands, issuance of permits, report.....	16121	<b>Psychiatry:</b>	
radiometric methods in prospecting of uranium ores.....	13794	and cybernetics, problems, USSR study.....	14931
<i>see also</i> Aerial prospecting.		and depth psychology, USSR study.....	16632
<b>Prosperity</b> , promote with stable prices.....	17817	military, bibliography, 1952-58.....	17053
<b>Prostate gland</b> , hyperplasia of, death rate by age, color, and sex, 1949-51.....	13483	residency training program, St. Elizabeths Hospital.....	9483
<b>Prosthetic appliances</b> , <i>see</i> Artificial limbs.		<b>Psychological warfare</b> in Vietnam.....	6590
<b>Protect your family</b> against poisoning.....	441	<b>Psychologists</b> , research, examination announcements.....	3206, 11831
<b>Protecting forests</b> from fire.....	1296	<b>Psychology:</b>	
<b>Protective coatings</b> , <i>see</i> Coating materials.		child development, role of speech, USSR study.....	14966
<b>Proteins:</b>		concepts, USSR study.....	14836
antigenic structure, changes under effects of ionizing radiations, USSR study.....	14940	contribution of reflex concept, USSR study.....	14932
blood serum, changes under action of X-rays, against background of varied nutrition.....	12960	depth, and psychiatry, USSR study.....	16632
blood substitute BK-8 in vitro, incorporation of radioactive methionine S-35, USSR study.....	5142	nature of individual consciousness of man as highest degree of mental development, USSR study.....	14933
chemical and organoleptic changes produced by radiation sterilization.....	4035	present status in Soviet Union.....	619
fishmeal, nutritional evaluation of processing variables.....	16377	psychological characteristics of students, relation of phasic states of excitability of cerebral cortex, USSR study.....	14935
parenteral feeding in radiation sickness, USSR study.....	14917	services in vocational rehabilitation.....	15236
physico-chemical and biological properties, radiation effects, USSR study.....	9250	social psychological change in children, evaluative research, guide lines.....	11814
pollock fish scale amino acid composition, etc.....	427	some problems in application of information theory, USSR studies.....	5018
protein composition of kidneys, blood, serum and urine of rats following damage caused by administration of heavy salts, USSR.....	6594		
sensitization, functional condition of cerebral cortex, USSR study.....	6491		

# INDEX, 1959

	Entry		Entry
<b>Psychology—Continued</b>		<b>Public debt—Continued</b>	
study, tasks, scientific nature, re-		management and Treasury financ-	
search methods, translations		ing (remarks)-----	4116
from Communist China's pub-		management policy of Federal Re-	
lications-----	17592	serve System (statement)-----	10110
see also Personality.		management problems (remarks)---	17147
<b>Psychopharmacology, bibliography of</b>		management to promote prosperity	
psychopharmacology, 1952-57-	6915	with stable prices-----	17817
psychopharmacology, bibliography,		monetary policy and debt manage-	
1952-57-----	6915	ment, questions prepared for	
<b>Psychophysiology, effects of confine-</b>		study of employment, growth,	
ment-induced stresses on air-		and price levels-----	15755
crew performance during exten-		significance, reduction, etc. (re-	
ded endurance flight-----	8372	marks)-----	17146
<b>Psychrometers, electric fan, history</b>		<b>Public defenders:</b>	
of development, etc-----	7838	appointment in U.S. district	
<b>Ptychocheilus oregonensis, see Squaw-</b>		courts-----	
<b>fish.</b>		hearings-----	17335
<b>Puberty, prolonged pathological reac-</b>		report-----	7566
tions, USSR study-----	14929	<b>Public documents, see Government</b>	
<b>Public address sets, AN/UIH-1</b>		<b>publications.</b>	
technical manual-----	8388	<b>Public Documents Division:</b>	
<b>Public administration, latest chal-</b>		classified list of Government pub-	
lenge confronting American		lications-----	15160
business (address)-----	15545	price lists-----	1146-47, 2108-9, 4016-19,
<b>Public affairs, see Public administra-</b>		5377-79, 6904-8, 8184-87, 9458-	
<b>tion.</b>		66, 10560-562, 13554-556,	
<b>Public assistance:</b>		15161-163, 17031-34, 17824-826	
handbooks for county board mem-		<b>Public domain, see Public lands.</b>	
bers-----	10586	<b>Public education, see Education.</b>	
homemaker service-----	4013	<b>Public employment, see Employment.</b>	
personnel, statistics, 1958-----	17822	<b>Public funds, deposit regulations,</b>	
<b>program, Washington State Dental</b>		<b>Treasury Dept. circular-----</b>	2167
<b>Service Corporation, re-</b>		<b>Public health, see Health.</b>	
<b>port.</b>	17039	<b>Public Health and Medical Research</b>	
<b>public assistance reports-----</b>	4013-15	<b>Year, see International Public</b>	
<b>social services, community re-</b>		<b>Health and Medical Research</b>	
<b>source-----</b>	2134	<b>Year.</b>	
<b>staff development as integral part</b>		<b>Public Health Department of DC:</b>	
<b>of administration-----</b>	4014	operation, management, etc., in-	
<b>State plans, staff development pro-</b>		<b>vestigation-----</b>	
<b>visions, characteristics-----</b>	4015	<b>hearings-----</b>	307
<b>State plans under social security</b>		<b>report-----</b>	1540
<b>act, insert-----</b>	17821	<b>Public Health Mission to USSR, see</b>	
<b>statistics, monthly advance re-</b>		<b>United States Public Health</b>	
<b>lease-----</b>	2891, 11432	<b>Mission to Union of Soviet So-</b>	
<b>welfare services under social se-</b>		<b>cialist Republics.</b>	
<b>curity act, aid to dependent</b>		<b>Public health nurses, see Nurses</b>	
<b>children program-----</b>	2135	<b>and nursing.</b>	
<b>Public buildings:</b>		<b>Public health schools, grants for op-</b>	
construction, alteration, and ac-		<b>eration and construction, hear-</b>	
quisition, vest authority in		<b>ings-----</b>	14344
GSA-----		<b>Public Health Service:</b>	
hearings-----	8751, 14577	act, amendments, compilation-----	4426
law-----	15626	advisory councils, study sections,	
reports-----	9859, 12137, 14477	and committees, list of mem-	
<b>District of Columbia, NASA to</b>		<b>bers-----</b>	8102
<b>lease through GSA-----</b>	7496, 7598	<b>appropriations, 1960, hearings---</b>	7447
<b>hearings-----</b>	7309	<b>commissioned corps, strengthen---</b>	
<b>law-----</b>	4618, 7553	<b>hearing-----</b>	9913
<b>reports-----</b>	14336	<b>reports-----</b>	12453, 14305
<b>Foreign Service program, increase</b>		<b>conference, 1959 proceedings, State</b>	
<b>appropriation, hearings-----</b>	14336	<b>and territorial mental health</b>	
<b>see also names of buildings or</b>		<b>authorities-----</b>	17047
<b>places where located.</b>		<b>conference with Childrens Bureau,</b>	
<b>Public bulletins:</b>		<b>etc., 1958 proceedings-----</b>	5383
Census Bureau-----	216, 4351	<b>conference with State and terri-</b>	
changes in schedule B-----	3181	<b>torial dental directors and</b>	
<b>D-1, code classification of United</b>		<b>Children's Bureau, 1959 pro-</b>	
<b>States, customs districts and</b>		<b>ceedings-----</b>	17048
<b>ports-----</b>	8461	<b>dentistry work among Indians-----</b>	15169
<b>Public contracts, see Government con-</b>		<b>Division of Personnel, DP pam-</b>	
<b>tracts.</b>		<b>phlets-----</b>	2110
<b>Public debt:</b>		<b>grants and awards by N.I.H.,</b>	
increase in ceiling---		<b>1959-----</b>	16947
hearings-----	8764, 12530	<b>health research facilities construc-</b>	
law-----	9794	<b>tion program, report-----</b>	4454
message from President-----	8549	<b>Indian Health Division, Billings</b>	
reports-----	9858, 9861, 10006	<b>area group information digest---</b>	1150
<b>Investigation of financial condi-</b>		<b>library of Surgeon General's Office,</b>	
<b>tion of U.S. hearings, analysis---</b>	14558	<b>index-catalogue-----</b>	17781
		<b>nurses, first job in PHS hospitals---</b>	2110



# JANUARY-DECEMBER

	Entry
Public Health Service—Continued	
officers, relief.....	7356, 12379, 13915
personnel, dependents—	
medical care, annual report.....	11716
transportation allowances of es-	
corts—	
law.....	14015
reports.....	4599, 12479
provide sanitation facilities for In-	
dians—	
hearings.....	8738
law.....	12007
reports.....	7578, 12117
research grants and awards—	
cardiovascular.....	9403
general information and policies,	
statement.....	6809
National Institutes of Health,	
1959.....	15095
research grants and fellowships	
awarded by N.I.H., 1958, sup-	
plement.....	8106
study effect on health of discharges	
from exhausts of motor ve-	
hicles, report.....	14214
Public housing, see Housing.	
Public Housing Administration:	
audit report, 1957.....	4435
housing programs open occupancy	
trends.....	17059
Public information:	
availability from Federal Depart-	
ments and agencies—	
hearings.....	1547, 9909, 14572
reports.....	5873, 15889
views.....	5873, 15889
clarify and protect right of public	
to information, reports of ex-	
ecutive departments, etc.....	7633
executive privilege to withhold,	
hearings.....	14570
free exchange restrictions, effect on	
scientific development and	
progress, hearing.....	16215
freedom and secrecy in Govern-	
ment, hearing.....	14572
Navy manual, change.....	17002
power of the President to withhold	
from Congress, memorandums	
of Attorney General.....	8902
program for national information	
on scientific and technical per-	
sonnel.....	15119
scientific, activities of Federal	
agencies.....	9423
see also Public relations.	
Public lands:	
acquisitions for reservoirs—	
by timberland exchanges, report.....	7380
joint Army-Interior policy, re-	
port.....	7380
acreage limitations on land trans-	
ferred to States, etc., amend	
recreation act—	
law.....	15657
reports.....	12233, 12546, 15918
Alaska—	
orders affecting.....	16674
role in future (remarks).....	3826
withdrawals and reservations,	
atlas.....	8013
code of Federal regulations.....	6157
Federal ranges, abandoned horses	
problem in range management	
and conservation.....	1977
Fort McDermitt Indian Reserva-	
tion, hold in trust for Fort	
McDermitt Paiute and Sho-	
shone tribes, report.....	15811
general information.....	14975
hydrology of public domain	
(series).....	6298
jurisdictional authority, restore to	
States, report.....	9988

	Entry
Public lands—Continued	
leasing law, extend to Oregon and	
California Railroad grant	
lands, etc.—	
law.....	9786
reports.....	5844, 8859
national forest, timber, etc., reor-	
ganization plan No. 1 of	
1959—	
disapproval—	
reports.....	9885
views.....	9885
hearing.....	9911
message from the president.....	7341
report.....	9888
views.....	9888
National Wilderness Preservation	
System, establish, hear-	
ings.....	7622, 12546
noxious plant control by States,	
report.....	16045
our public lands (periodical)—	2762, 11301
phosphate prospecting permits, re-	
port.....	16121
range fires, remarks.....	13301
records, improvement project, etc.,	
American history footnotes.....	17670
small tracts act applications for	
Caribou and Targhee National	
Forest lands, permit process-	
ing—	
law.....	14020
reports.....	9865, 12502
small tracts, procurement from	
Government.....	906
watershed management practice	
(remarks).....	17671
withdrawals, not to affect water	
rights, hearings.....	15947
see also names of States, etc., where	
lands are located.	
Public laws, see Law.	
Public notices, Tariff Commis-	
sion.....	2964, 11512
Public Officials Traffic Safety Confer-	
ence, report.....	5389
Public papers of Presidents of United	
States.....	1626, 6160, 17412
Public printing and binding:	
Government paper specification	
regulations.....	12323
standards.....	9934
Public property:	
code of Federal regulations.....	6146
disposal of obsolescent locks and	
dams—	
law.....	11964
reports.....	8709, 9993
donable property program, ex-	
pansion, hearings.....	17353
Federal property and administra-	
tive services act—	
amend—	
hearings.....	17353
law.....	14068
reports.....	6008-9, 8632, 14247, 16101
text, as amended, with analysis	
and index.....	4919, 7619
Federal, transfers by GSA, hear-	
ing.....	12539
fire loss, 1958.....	4920
in possession of contractors—	
administration manual.....	10544, 15133
changes.....	6864, 9436
manual for control.....	6081-82
management, Department of In-	
terior field offices, workshop re-	
ports, etc.....	16485
National Guard regulations.....	6808
transfers of Indian school proper-	
ties to local school districts,	
remove 20-acre limitation.....	8834
Public relations:	
activities and programs of Post Of-	
fice Department (address).....	17815

# INDEX, 1959

	Entry
<b>Public relations—Continued</b>	
planned in modern cooperative business.....	12627
public and USDA (notes for remarks).....	16484
Public roads, <i>see</i> Roads and highways.	
Public Roads Bureau:	
Federal aid highway trust fund, proposed provisions.....	15992
Library, electronic computer program—	
flow charts use.....	4032
memorandum.....	2899, 11442
switching, application, etc.....	4033
releases.....	2901, 11444
report, 1958.....	5387
Public safety, <i>see</i> Safety of life.	
Public schools, <i>see</i> Schools.	
Public Services Division, series S.....	1196-97, 4077, 5419-20, 10594, 15202, 17097.
Public speaking engagements, <i>see</i> addresses, lectures, etc.	
Public use, tabulation of visitors to areas administered by National Park Service.....	2858, 11399
Public utilities:	
accounts, uniform system.....	17411
corrosion prevention techniques, maintenance and operation at Naval shore-facilities.....	13671
holding companies, security transactions and holdings.....	2918, 11463
inspection for maintenance.....	2180-81, 2183
public utilities holding company act, regulation S-X.....	1164
<i>see also</i> Electric utilities.	
Public water supply, <i>see</i> Water supply.	
Public welfare, <i>see</i> Social work and problems.	
Public works:	
appropriations, 1960—	
hearings.....	7455, 8721, 10027-29
law (H.R. 9105).....	15629
reports.....	8686, 12424, 14244, 15898
veto (H.R. 7509).....	15773
veto (H.R. 9105).....	15774
appropriations for certain projects	
hearings.....	14578
code of Federal regulations.....	6146
Community Facilities Administration planning program, Oct. 1958.....	4415
construction, repair, etc., on rivers and harbors—	
hearings.....	12908, 14578
reports.....	8712, 12174
veto (S. 497), analysis.....	7481
corrosion prevention techniques, maintenance and operation at Naval shore facilities.....	13671
D.C. act, operation, etc., investigation—	
hearings.....	307
report.....	1540
Engineer Corps civil works activities, report 1958—	
departmental edition.....	6103, 12602
document edition.....	5796, 12038
epoxy resins for use on civil works projects, summary of data.....	16274
floating plant list, Engineers Corps manual.....	16266
inspection for maintenance.....	2180-83
loan program under community facilities act, expand, hearings.....	8725
military department projects, moving costs of tenants, extend time for filing applications—	
law.....	15682
reports.....	8655, 14492

	Entry
<b>Public works—Continued</b>	
projects relating to flood control, etc., investigation—	
authorization, reports.....	3298, 7402, 15890
expenses, report.....	3307
<i>see also</i> Installations (military).	
Public Works Committee, House:	
calendars.....	2459, 10990
hearings, etc.....	321, 5935, 7481-85, 9921, 12307-308, 15958, 17339
investigations and studies, matters within its jurisdiction—	
authorization, reports.....	3298, 7402, 15890
expenses, report.....	3307
reports.....	4549, 4620, 4623, 5899, 7381, 7404, 7422, 8708-9, 8712, 8715, 8751, 9852, 9859, 9866, 9875, 9877, 12128, 12147, 14237, 14258, 14260, 14321-322, 15876, 15899-901, 15910.
views.....	4620, 5899, 7381, 15876.
Public Works Committee, Senate:	
additional staff and funds—	
authorization, report.....	3354, 4707
report.....	2477, 11010
calendars.....	7645-46, 10054-55, 12567, 14577-578, 16225-226, 17361
hearings, etc.....	
legislative activities, summary, 85th Cong.....	7646
reports.....	3354, 6032-35, 7544, 7581-86, 7596-96, 9992-93, 10000, 10017, 12411, 12492, 14477-483, 14520, 14528, 14542-544, 16049, 16127, 16134, 16165, 16174-175.
views.....	10017, 14483, 14520, 14528
Publications:	
Federal supply schedules.....	417, 7734, 10118
research program, USDA and States cooperating, 1958 summary.....	7870
technical, abbreviations, military standard.....	12579
<i>see also</i> Government publications—	
Military publications— <i>also</i>	
names of departments, etc., issuing publications— <i>also</i> subjects.	
Publishing:	
Industry—	
economic summary, monthly.....	2333, 10794
location of plants by county and employment size.....	5701
Puccinia graminis, physiologic races in United States, 1958.....	9596
Pueblo, Colo., aircraft accident.....	11819
Pueblos, <i>see</i> Arroyo, Pueblo del, N. Mex.—Bonito, Pueblo—Isleta Pueblo, N.Mex.—Santo Domingo Pueblo, N.Mex.	
Puerperium, complications, death rates by age, color, and sex, 1949-51.....	15107
Puerto Montt, Chile, weather stations, agreement with Chile.....	4088
Puerto Rico:	
canned fish and byproducts, annual summary.....	6187, 7738
census of governments, 1957, State bulletin.....	13851
climatic summary, 1931-52.....	17153
climatological data.....	2993, 11546
coast pilot, supp.....	5756
coastal geology.....	12769
deaths, leading causes, 1957.....	8117
fetal deaths, 1957, national summaries.....	16960
gasoline, jet fuel, etc., service-station deliveries, Federal supply schedule.....	419
geographic names, decisions.....	10186

# JANUARY-DECEMBER

Entry		Entry	
<b>Puerto Rico—Continued</b>		<b>Pumped storage for hydroelectric power, selected list of references in English.....</b>	
guaba, yagrumo hembra, and eucalyptus woods, neutral sulfite semichemical pulping process.....	1683		9530
guía contributiva del seguro social para patrones Puertorriqueños.....	6324	<b>Pumping stations, sewage and industrial waste pumping stations, engineering manual.....</b>	
infant mortality, 1957.....	16959		381
mail routes, schedule.....	2102	<b>Pumps:</b>	
marriages and divorces, 1957.....	9413	<b>farm—</b>	
marriages, divorces and annulments, 1957.....	9412	factory shipments, facts for industry.....	5692
maternal mortality, 1957.....	16958	facts for industry.....	2371, 10902
mineral industry, minerals yearbook chapter.....	17683	shipments by destination, 1956-57.....	4357
minimum wage rates, biennial reviews, hearing.....	308	hose, for applying fertilizer solutions.....	1304
mortality data, 1957, national summaries.....	10522	irrigation, engineering handbook.....	6937
mortality from selected causes, 1957.....	6824	piston for cryogenic fluids.....	6780
motorboat act of 1940, make applicable, report.....	16067	<b>Punched card calculator, see Calculating machines.</b>	
natality, 1957, national summaries.....	16961	<b>Pupil (eye) see Eyes.</b>	
national atlas sheet—		<b>Pupils (students), see Students.</b>	
aerial mosaics status.....	14750	<b>Purchasing:</b>	
aerial photography status.....	14751	buying practices of employee food services in manufacturing plants.....	8320
topographic mapping status.....	14752	changes in American buying habits.....	10396
principal electric facilities, map.....	16342	<b>Commodity Stabilization Service purchase reports.....</b>	
publications, price list.....	8186		2435-36, 10968-969
shoe and related products industry, findings of fact and recommendations.....	10633	coordinated purchase descriptions, index.....	6919
shoreline features and quaternary shoreline changes.....	17492	frozen fruits and vegetables for family consumption.....	7057
storm warning facilities chart, 1959.....	9546	institutional meat purchase specifications approved by USDA—	
tropical sprue, Army studies.....	8391	fresh beef.....	13691
United States trade, monthly reports.....	2362, 10893	fresh lamb and mutton.....	13692
wage order procedure, under fair labor standards act.....	4121	fresh pork.....	13693
<b>Pullets, see Chickens.</b>		fresh veal and calf.....	13694
<b>Pullman Company, transport statistics, 1958.....</b>	16502	frozen pork.....	13695
<b>Pulp:</b>		general requirements.....	13696
and allied products, prices and price indexes, 1957.....	897	power of consumer dollar in U.S. cities, 1913-59.....	16667
and products, manufacturing plants, location by county and employment size.....	5701	spending patterns of single consumers in 3 periods.....	8007
Colombian woods, pulping experiments.....	486	<b>Purchasing agents, foreign government purchasing agencies.....</b>	
facts for industry.....	2371, 10902		3534
industry report.....	2337, 10810	<b>Purse nets, see Fish nets.</b>	
see also Wood pulp.		<b>Purse seines, see Fish nets.</b>	
<b>Pulp wood, see Wood pulp.</b>			4473
<b>Pulpboard:</b>		<b>Pyle, Sue, relief.....</b>	
beetle-killed Engelmann spruce as raw material for particle board.....	12749	<b>Pyrethrum:</b>	
facts for industry.....	2371, 10902	mists and aerosols for control of insects in tobacco warehouses.....	
hardboard form red alder and southern oaks.....	4907		11630
lodgepole pine, Engelmann spruce, and Douglas-fir, suitability investigation.....	3563	errata.....	17199
particle board, facts for industry, 1957.....	7203	synergized, protection of stored wheat and shelled corn from insects, evaluation.....	8318
<b>Pulpwood, see Wood pulp.</b>		Pyrites, minerals yearbook chapter.....	16735
<b>Pulse amplifiers, see Amplifiers.</b>		Pyrometallurgy, see Metallurgy.	
<b>Pulse columns, design.....</b>	15404	Pyrometers, gas radiation, experimental, development.....	4273
<b>Pulse transformers, see Electric transformers.</b>		Pyrophyllite:	
<b>Pulses, noises, protection from, in apparatus for recording meteor activity USSR study.....</b>	5139	bibliography.....	10188
<b>Pumice:</b>		in 1958.....	2002
and pumicite, minerals yearbook chapter.....	16718	minerals yearbook chapter.....	15039
production, etc., 1958.....	13358	production, etc., 1958.....	13334
preliminary report.....	5191	<b>Q</b>	
stone, free importation—		<b>Q.M.C., see Quartermaster Corps of Army.</b>	
law.....	15690	<b>QA-IND series.....</b>	
reports.....	14254, 14523		9543
		<b>Quadracentennial Anniversary Commission of Florida, recognition by Federal Government, reports.....</b>	
			5884, 7580
		<b>Quaking aspen, see Aspen.</b>	
		<b>Qualification record, National Guard regulations.....</b>	
			5314
		<b>Quality control:</b>	
		contractor systems, evaluation, military standard.....	1588
		small manufacturers laboratory, setting up.....	13585

# INDEX, 1959

	Entry		Entry
Quantitative determination of uranium loading of aluminum-clad fuel plates by X-ray densitometry.....	5648	R.F.C., <i>see</i> Reconstruction Finance Corporation.	
Quapaw Indians:		R.O.T.C., <i>see</i> Reserve Officers Training Corps, Army.	
per capita distribution of judgment funds—		Rabaul, New Britain, reduction, war in Pacific.....	16682
law.....	11984	Rabbits, raising, information.....	8311
reports.....	8835, 12121	Rabies, viruses, experimental effect of purified microcide, Ukrainian SSR studies.....	3799
Quarantine, plant quarantine P.P.C.-Q. series.....	56	Raccoons, control methods.....	7760
<i>see also</i> subjects.		Race problems:	
Quarries and quarrying, injury experience, 1955-56.....	16699	housing program (address).....	12644
Quarterly:		Little Rock, Ark., school desegregation case, President's power to use troops, opinion of Attorney General.....	5156
Note.—For all publications which begin with the word "Quarterly", <i>see</i> subject, or name of department, etc., issuing publication.		Negro problem in U.S., intensification.....	6585
Quartermaster Corps of Army:		public housing projects, open occupancy programs, trends.....	17059
historical studies.....	5394, 17062	school desegregation, strengthen law, etc.—	
research and development report, radiation preservation of food.....	11715	recommendations of the President.....	3289
Quartermasters, Navy, I and C, Navy training courses.....	16976	report.....	15806
Quartz:		<i>see also</i> Discrimination in employment.	
crystal—		Racine, Mo., zinc-lead deposits in area, exploration.....	17706
deposits of southwestern Virginia and western North Carolina, report on sources and origin.....	6286	Racketeering, labor unions, and problems of law enforcement officials (address).....	1982
electronic grade—		Racks:	
minerals yearbook chapter.....	15032	breeding, for cattle, farm building plan.....	8328
production, etc., 1958.....	10434	electrical equipment, 10 inch and associated panels, military standard.....	10061
units stability, studies with time.....	13577	relay cabinet type, CAA specification.....	223
gravimeters, nullpoint creep based on use of elastic properties of twisted thread, new experimental data.....	5138	Radar:	
growth and synthetic, catalog of technical reports, 1932-59.....	5665	air traffic control operator, Air Force, on-the-job training package.....	15352
irradiation effects.....	13579	air traffic control procedures, manual, revised pages.....	14614
Quaternary period:		AN/TPS25 set, organizational maintenance, technical manual.....	9654
deposits, surrounding frost structures, USSR studies.....	10265	CAPPI technique presentation in synoptic diagnosis and research.....	9622
geology of Smoke Creek-Medicine Lake, Grenora area, Mont. and N. Dak.....	7848	equipment for ground troops, USSR.....	1937
Puerto Rico shoreline changes.....	17492	evaluation of DuMont SRD-1 bright display and initial study of other display techniques.....	4805
Quercus, <i>see</i> Oak.		meteorological servicing at air weather station of Civil Air Fleet at Rostov-on-Don, USSR.....	16539
Quesada, Elwood R.:		method, use in determining distribution functions of scatterers on agitated sea surface, USSR study.....	10330
retirement in grade of Lieutenant general and reappointment authority—		publications, price list.....	2109
hearing.....	14549	reflections from illumination of auroras, USSR studies.....	1763-64
law.....	15559	reflections, PAR-Scope, oscilloscope display for weather radars.....	17225
reports.....	15782, 16000	scanning equipment, analysis.....	1124
Questionnaires, development for personal inventory barometer.....	10420	sea clutter echo characteristics, observations at 220 Mc.....	3988
Questions and answers about screw-worm eradication.....	3039	spurious echoes, survey.....	13749
Questions and answers, QA-IND series.....	9543	stations, auditory sensitivity of workers, USSR study.....	12929
Questions of non-infectious immunology problems of biological action of ionizing radiation, USSR.....	1864	synthesis of optimum homing missile guidance systems, solution with statistical inputs.....	6758
Quinault Indians:		target detectability with B-display, effects of ambient illumination, CRT bias and noise.....	6860
land donation—			
law.....	14053		
reports.....	12196, 14454		
Quintero, Chile, weather stations, agreement with Chile.....	4088		
Quintos, Juan De., and others, relief.....	14153		
Quon, Wong Bick, <i>see</i> Wong Bick Quon.			
	R		
R.A.S. series.....	3043, 17189		
R.E.A., <i>see</i> Rural Electrification Administration.			



# JANUARY-DECEMBER

	Entry		Entry
<b>Radar—Continued</b>		<b>Radiation—Continued</b>	
test set group OA-2228/TPS-25, operation and organizational maintenance, technical manual	9655	irradiation of animals by neutron fluxes, experimental installation, USSR	1929
volumetric scanning ground controlled approach antenna prototype	1126	living with radiation, problems of nuclear age for layman	7160
Radar mechanics, see Mechanics (persons).		meters, design	13520
RADC, see Rome Air Development Center.		microbiology, tasks in connection with plan for development of national economy of USSR, 1959-65	10388
Radial acceleration, see Acceleration.		nuclear—	
Radiant heating, use to reduce filtercake moisture in coal preparation	8053	conference on effects on materials, sponsored by Ordnance Materials Research Office	5367
Radiation:		irradiation effects upon microwave properties of ferrites	13516
accidents in atomic energy activities	13803	occupational diseases from effect, USSR study	12950
affection, somatotrophic hormone injection, prophylactic and therapeutic action, USSR studies	3737	patterns resulting from deformed Dolph-Tchebycheff amplitude distributions	6856
connection between radiation balance and total balance, USSR studies	1945	penetrating—	
detection and measurement, literature search	8404	effect on central inhibition (USSR)	634
devices, incidental and restricted, FCC rules and regulations	12636, 14616	effect on development of fetus under experimental conditions, USSR study	14018
dose rate influence on biological effects, USSR study	14942	radiobiology and physics, seminar at Leningrad, USSR studies	10359
dosimetry development in USSR	12896	physics data, energy dissipation by fast electrons	16941
effects on—		primary mechanism of biological action, USSR studies	10371
fruits and vegetables, European interest	8393	properties of high temperature air-radiation phosphorus, effect on functional condition of heart, USSR studies	8344
graphite	5650	radionuclides in human body, maximum permissible values for occupational exposure	9396
physico-chemical and biological properties of proteins, USSR study	9250	reaction, treatment with acupuncture-moxibustion therapy, Chinese study	9197
quartz and quartz crystal units	13579	reprocessing irradiated fission reactor fuel and breeding material, list of reports	9666
employee hazards and workmen's compensation—		shields and shielding, bibliography—	11737
hearings	17314	singly scattered from distant source when angular scattering function is known, computation	17800
hearings, summary analysis	15750	skin surface, problem of utilizing fibrin films after irradiation, USSR	1867
selected materials	4422	solar, silicon photocells as converters, investigation	14758
experimental anthrax infection in irradiated animals, USSR study	17568	sterilization, chemical and organoleptic changes in carbohydrates and proteins	4035
exposure, fallout predictions to total population (address)	8418	sterilization of food, detect formation of toxic agents, USSR study	6524
external environmental measurements in United States	1383	sterilized foods, correlation of chemical changes with flavor development	4037
food preservation—		therapy—	
catalog of technical reports, research reports	11715	dosimetry problems, units of measurement, etc., USSR study	14863
1951-58	9675	injuries from, USSR study	14920
from radioactive atoms, compilation of information	5658	supervoltage, symposium	11760
gas plasma irradiation of cotton seeds, results	17182	use of heroin for protection of embryos of white mice during total irradiation of mother	13252
hazards, fundamentals	7160	see also Beta rays—Gamma rays—Immunisation—Infrared rays—Ionizing radiation—Radioactivity—Shielding—Ultraviolet rays—X-rays.	
hygiene, Soviet work	6431	Radiation detection instruments:	
induced free radicals, detection by paramagnetic resonance	5393	facts for industry, 1957	7205
injuries in animals, influence of nutrition on course, USSR studies	3719	literature search	8404
injuries of skin, complex method of treating, USSR study	14919	see also Dosimeters—Scintillation counters.	
irradiated animal tissues, change in physico-chemical properties of deoxyribonucleic acid	5104		
irradiated animals, early changes in bone marrow, USSR study	16593		
irradiated fission reactor fuel and breeding material annotated bibliography of reports	9664		
irradiated organism, immunobiological reactivity, USSR studies	1934		
irradiation influence on virulent properties of typhoid microbes	840		

# INDEX, 1959

Entry	Entry
Radiation illness:	Radiation illness—Continued
acute—	liver condition, functional, follow-
effect of neurotropic substances	ing contact with radioactive
on regeneration of bone tis-	substances, USSR..... 824
sue, USSR study..... 10382	luminescent microscopy, importance
roentgen kymography of heart..... 825	in study of bone marrow, USSR
sickness in rats and mice, thera-	study..... 13254
peutic action of strychnine,	medical report on victims of Y-12
USSR study..... 10381	accident, June 16, 1958..... 11733
stimulation of hematopoiesis,	neuritis of femoral nerve, USSR
USSR..... 624	study..... 6577
therapy with homoplastic trans-	parenteral protein feeding in radia-
plantation of spleen, USSR	tion sickness, USSR study..... 14917
study..... 14927	pathological anatomy, USSR study..... 10274
aminazine use, prophylactic ef-	peripheral nervous system of ani-
fect, USSR study..... 13258	mals, morphological changes at
animals, reaction to general cool-	long periods after recovery,
ing, USSR study..... 10379	USSR study..... 14857
autolysis of tissues, changes fol-	pharmacological agents protective
lowing irradiation, USSR	action in radiation injuries,
study..... 13260	USSR studies..... 1922
B-complex vitamin effect on re-	physical stress role, methodology
sistance, USSR studies..... 9248	of studying, USSR study..... 16596
biological anti-radiation protection	problem of metabolism of vitamin C
during X-ray therapy of tu-	and aromatic amino acids, USSR
mors..... 625	study..... 6593
blood losses, complex therapy,	prophylactic application of adrena-
USSR study..... 14862	lin in combination with acetyl-
burn shock course during initial	choline..... 623
phase, USSR studies..... 6520	prophylaxis, intrauterinely-irradi-
caused by intravenous administra-	ated fetus, USSR studies..... 10353
tion of radioactive strontium,	prophylaxis and therapy, employ-
changes in nervous system of	ment of phenergan and amina-
dogs, USSR study..... 14926	zine, USSR study..... 14923
chemical protection, USSR studies..... 5103	radioactive strontium, effect on
chemotherapy in monkeys under	organism, USSR study..... 1933
experimental conditions, USSR	radium and mesothorium poison-
study..... 13267	ing, dosimetry, etc..... 4308
course of wounds in small intes-	reactivity, use of immunological
tines, USSR study..... 3679	and microbiological methods
desoxyribonuclease activity in	for study, USSR study..... 13257
urine following irradiation,	Soviet research..... 6503
USSR study..... 14856	surgical treatment of wounds of
development of leukoses as re-	soft tissues, USSR study..... 6521
mote sequence, USSR studies..... 6486	surrounding temperature effect,
development of most acute form,	USSR studies..... 6440
USSR studies..... 1932	therapy, use of colloidal infusion,
development, treatment, etc., USSR	USSR study..... 3735
studies..... 10371	treatment in dogs by drip blood
diagnosis in early stages, USSR	transfusions, USSR..... 826
study..... 6597	ulcers, amnion tissue dressing, di-
dose rate of radiation influence,	rect application, Chinese
USSR study..... 14942	study..... 9198
early changes in dogs' skeletons fol-	working classification, USSR study..... 13261
lowing radioactive strontium	Radiation laboratories:
and yttrium irradiation, USSR	hot laboratories and equipment, de-
study..... 14924	sign and operations..... 8408
effects on—	sanitary, hygienic, and technical
bone fracture healing, USSR..... 1768	requirements in planning and
functional condition of cardio-	equipping, USSR study..... 13268
vascular system, USSR study..... 9247	Radiation monitoring:
heart sensitivity to cardiac	methods and instruments, hand-
glucosides..... 1866	book..... 9660
morphological picture of blood,	radiological defense—
USSR studies..... 1865	countermeasure system compon-
efficacy of different kinds of hemo-	ents and evaluation of opera-
therapy, USSR studies..... 10368	tional procedures..... 17270
general principles in treatment of	technical operations..... 17271
combined radiation affections,	remote radiological monitoring..... 11755
USSR study..... 10367	Radiation sickness, see Radiation ill-
hypophyseal-suprarenal system in	ness.
manifestations, USSR studies..... 6619	Radiators (aircraft):
injuries of external integument, use	heat-transfer and friction meas-
of fibrin films, USSR studies..... 10354	urements..... 1081
ionizing radiation biological ac-	Radicals, see Free radicals.
tion, questions on non-infecti-	Radio:
ous immunology problems,	automobile, facts for industry..... 8455
USSR..... 1864	minitrack tracking systems for arti-
ionizing radiation effect on higher	ficial earth satellites..... 1130
divisions of central nervous	national defense education act of
system..... 5107	1958—
	administration, hearings..... 5924, 9908

# JANUARY-DECEMBER

Entry		Entry	
<b>Radio—Continued</b>		<b>Radio communication—Continued</b>	
national defense education act of 1958—Continued		redifusing technique, long-range plans for wire-diffusion (USSR).....	
guide.....	3420	safety and special radio services, FCC applications and actions.....	2533, 11068
new educational media program, occupations, American women, membership analysis.....	9555	system operations, Air Force manuals.....	1339-40, 4221, 8356
see also headings beginning Radio.		treaty matters, experimental services, incidental and restricted devices, industrial, scientific and medical services, FCC rules and regulations.....	12636, 1461
<b>Radio apparatus and appliances:</b>		USSR, operator's post for operating channels.....	14846
industrial, scientific, and medical service, FCC rules and regulations.....	12636, 14616	Vesna radio-relay system with automatic intermediate stations, USSR study.....	12923
radio telemetry instrumentation standards for missiles and aircraft, military standard.....	1585	weather aids.....	14779
use in medicine and biology, USSR, outcomes and prospects.....	17579	Radio Consultative Committee, International, see International Radio Consultative Committee.	
see also name of apparatus or appliance.		<b>Radio direction finders:</b>	
<b>Radio beacons, see Radiobeacons.</b>		set AN/ARN-59, technical manual, wide-aperture, wullenwever, German study.....	169 3708
<b>Radio broadcasting:</b>		Radio direction finding, balloons, accuracy of RDF position fixes in tracking.....	146
applications, FCC.....	2527, 11062	<b>Radio engineering:</b>	
broadcast actions, reports.....	2526, 11061	prospects for development of equipment for high-frequency electrophysics, USSR study.....	16608
market news, survey.....	4137	radio engineering (USSR periodical), abstracts.....	1784, 10859
Mexican agreement—		radio engineering and electronics, (USSR periodical), abstracts.....	10858
hearing.....	12536	Radio engineers, examination announcement.....	4391
interim report.....	16200	discontinuance notice.....	5743
network of wire diffusion receiver equipment, techniques.....	833	Radio equipment, see Radio communication.	
newscasts, etc., equal-time amendment, hearings.....	14343, 14569	Radio facility charts, see Maps and charts.	
North American regional broadcasting agreement.....	12536	Radio frequencies:	
interim report.....	16200	allocations, FCC rules and regulations.....	12636, 14616
occupations, industrial trends.....	9557	allocation of spectrum between government and nongovernment users, hearings.....	12298
operations of USIA center at Munich, Germany, report.....	16189	optimum, for outer space communication.....	13578
regulations, etc., study report.....	7471	Radio frequency filters, camerton filters, theory, experimental investigations.....	1958
talent fees, defining term as applied to performers and announcers.....	1229	Radio frequency modulation, broadcasting stations of world, indexed by country, city and frequency.....	12702
USSR weather reports from Antarctic Jan. 27 and Feb. 16, 1959.....	13270	Radio frequency tuners and I-F amplifiers for transistors.....	13777
see also Radio communication—Radio stations.		Radio in navigation:	
<b>Radio communication:</b>		aids, 1958.....	3615-16
agreement with Mexico.....	17124	aids, 1959.....	6513, 14778
aircraft radio equipment, 1958.....	17399	Radio interference, suppression, traveling wave antenna with controllable directions of null reception, USSR studies.....	5108
amateur service, FCC rules and regulations.....	17404-405	Radio journalism:	
aviation, public safety, industrial, and land transportation service, FCC rules and regulations.....	7701, 12637, 14617-618	equal-time provisions for candidates for public office, amend act, hearings.....	14343, 14569
broadcast services, FCC rules and regulations.....	17402-403	law.....	14100
charges and services of common carriers, clarify FCC's authority, report.....	16048	reports.....	12255, 12463, 14242, 14299
communications-electronics charts, symbols, formulas and tables, Air Force manual.....	15345	views.....	12255, 12463
data from radiotelegraph carriers' reports.....	2521, 11057	Radio measurements, antennas, techniques.....	2057
experimental, auxiliary, and special broadcast services, FCC rules and regulations.....	17402	Radio operators, USSR, post for operating radio-communication channels.....	14846
licenses, new pre-grant procedure for obtaining, etc., amend communications act, report.....	14474	Radio programs, see Radio broadcasting.	
medical advice to ships at sea, ILO recommendations.....	7339	Radio propagation, see Radio waves.	
military affiliate radio system, Air Force manual.....	8357	Radio publications, price list.....	2109
Poland, effectiveness of expenditures for wire and wireless diffusion.....	627	Radio ranges, see Omnidirections.	
public land mobile radio service.....	2530, 11064		
radio relay systems, new approach in engineering.....	13765		
radioelectronics development in Communist China, views.....	5098		

# INDEX, 1959

	Entry		Entry
Radio receivers, <i>see</i> Receivers (radio).		Radioactive substances—Continued	
Radio repairmen, prediction of success in courses	1	waste products, power reactors, origin and disposal procedures, etc.	3161
Radio services, <i>see</i> Radio communications.		wastes evolved from nuclear energy activities, nature, management, etc.—	12029
Radio signals, fluctuating signal imposed on constant signal, theory of fading properties	8097	hearings	14104
Radio stations:		hearings, summary-analysis	14104
agreement with Canada	9515	<i>see also</i> names of radioactive minerals, etc.	
amateur, exchange of messages on behalf of third parties, agreement with Mexico	17124	Radioactive waste disposal:	
amateur operation at plenary assembly of International Radio Consultative Committee, permit—		disposal of acid aluminum nitrate high-level solutions by injection into deep-lying permeable formations, problems	4928
law	5782	effluent control, activities of Federal and State Government agencies and administrative relationships—	
reports	4726, 5849, 5856	hearings	12029
broadcasting stations of world—		hearings, summary-analysis	14104
FM and TV, indexed by country, city and frequency	12702	industrial problems—	
indexed by call letter and station name or slogan	12701	hearings	12029
indexed by country and city	12699	hearings, summary-analysis	14104
indexed by frequency	12700	international aspects—	
FCC to impose fines for violations of rules and regulations, report	14473	hearings	12029
Voice of America radio relay facilities, agreement with Liberia	17122	hearings, summary-analysis	14104
Radio strontium, <i>see</i> Strontium isotopes.		power reactors, origin and disposal procedures, etc.	3161
Radio transmitters, <i>see</i> Transmitters.		research and development program—	
Radio tuning devices, frequency tuners for transistors	13777	hearings	12029
Radio waves:		hearings, summary-analysis	14104
basic radio propagation predictions	2847, 11388	Radioactivity:	
propagation, determination of distribution of scattering elements on agitated sea surface, USSR study	13040	applied, radium and mesothorium poisoning and dosimetry and instrumentation techniques	4308
propagation, feasibility of determining by radar method distribution functions of scatterers on agitated sea surface, USSR study	10330	atmospheric—	
radio propagation, journal of research, National Bureau of Standards	11391	AEC studies	8413
scattering, ionosphere	13771	levels at Yokosuka, Japan, 1954-58	10540
ultrashort, propagation in mountainous locality, USSR study	9223	studies at Naval Research Laboratory	5350
<i>see also</i> Electric waves—Microwaves.		comparison among caliper-log, gamma-ray-log and other diamond-drill-hole data	4924
Radioactive isotopes, <i>see</i> Isotopes.		disequilibrium in uranium series	4927
Radioactive isotopes in petroleum industry	13766	fallout—	
Radioactive substances:		aggregates in stratosphere	7108
contamination of open water reservoirs, sanitary protection, USSR	5102	atmospheric, summary of new data	11745
deposits, geologic investigations, progress report, June-Nov. 1958	9663	biological and environmental effects—	
geologic investigations of deposits, Dec. 1, 1956-May 31, 1957	4322	hearings, additional copies, reports	14323, 16057
minerals in Washington, Idaho, and western Montana, 1952-55, reconnaissance	3600	hearings, excerpts	13804-808, 15422
occupational diseases from effect of USSR study	12950	hearings, summary-analysis	14102
remotely operated Charpy test machine	16983	control	8403
self-luminous aids to night military activity, recent advances	5347	data collected from 11 Atomic Energy Commission installations during 1958 tests	13814
shipping at NRTS	13815	effect on—	
toxicology problems, medical radiology, USSR	814	agriculture in time of emergency (talk)	8300
transportation, regulation by ICC, report	16126	processed foods, containers, and packaging, test	8414
Tsuya Tscan for measuring venting of hot gases through temperature inversions	188, 4262	raw agricultural products, test	8415
		family shelter, building plans	11829
		literature search	7154
		natural aerosols and nuclear debris studies	7107
		nuclear tests at Nevada test site	8407
		nuclear weapons tests—	
		hearings, additional copies, reports	15909, 16058
		hearings, summary-analysis	14103
		patterns, influence of fire-induced convection column	12748
		protection afforded by residential structures against distributed sources, experimental evaluation	4312
		remarks	4387



# JANUARY-DECEMBER

	Entry		Entry
<b>Radioactivity—Continued</b>		<b>Radiolodine, see Iodine isotopes.</b>	
<b>fallout—Continued</b>		<b>Radiolodine, see Isotopes.</b>	
remote monitoring	11755	<b>Radiolodine in Scientific Research,</b>	
soil and plant relationships of		International Conference on	
fission products	11747	Use of, <i>see</i> International Conference	
sources of radiation exposure to		on Use of Radiolodine in Scientific Research.	
total population (address)	8418	<b>Radiological Research Laboratory,</b>	
stratospheric, particularly from		Columbia University, annual	
Russian Oct. 1958 series	11746	report on research project	4316
strontium measurement program,		<b>Radiological warfare:</b>	
quarterly reports	4318, 8398, 15401, 17252	agents, hearings	12312
two-year summary	8406	collective protection, engineering	
worldwide effects of atomic weapons project sunshine	11719	manual	4787
fallout effects, bibliography	186	defense education handbook	3198
hazards, Federal-State relationships rel. standards, etc., hearings	15751	research, report	14215
individuals, protection during work, USSR study	13265	<b>Radiologists, occupational diseases, USSR study</b>	12939
measurements in air, 1957	1129	<b>Radiology:</b>	
protective action of certain pharmacological agents in radiation injuries, USSR studies	1922	create by combining Chinese traditional and Western medical practices	9196
radiation—		hydrocarbons, formation of free radicals and atoms during radiolysis at temperature of 77° K, USSR studies	3726
injuries contaminated with radioactive agents, general principles in treatment, USSR study	10367	hygienic problems, USSR study—	13269
principles of biological action	4345	medical—	
reconnaissance, metal mining districts, San Juan Mountains, Colo.	3596	hygienic problems, USSR study	12988
scintillation spectroscopy use in evaluation of contamination of human body	11720	preparation of cadres at USSR institutes for training of physicians	10358
Sharon Springs member of Pierre shale, Colorado, Kansas	4922	USSR	814
standards, preparation, maintenance and application, errata	5310, 10506	USSR all-union conference, works	17247
<i>see also</i> Radiosensitivity—also subjects.		research of Laboratory of Biophysics, Institute of Biology, Ural affiliate of Academy of Sciences, USSR	7934
<b>Radiobeacons:</b>		research project, annual report	4316
automatic drifting, used in observations of marine currents and ice drifts in Arctic Basin and its seas, USSR studies	7928	7th all-Union congress, summary of proceedings	10377
marker, antenna and feeder assembly, CAA specification	229	Soviet, development, role of Moscow Scientific Society of Roentgenologists and Radiologists	12940
<b>Radiobiology:</b>		USSR conference on medical problems, proceedings	10231
critique of certain fundamental conceptions, USSR study	6442	working conditions of personnel in radiological rooms, USSR study	12922
debatable questions, USSR study	6443	<b>Radiometers, measurement of high intensity radiant flux</b>	15336
fish collected at Rongelap and Ailinginae Atolls	3169	<b>Radiometry:</b>	
in USSR, abstracts	724	airborne—	
penetrating radiation in Central Scientific Research Institute of Medical Radiology of Ministry of Health, USSR, Dec. 19, 1958, 36th Congress	13262	reconnaissance in Valley of Fire-Muddy Mountains region, Nevada	13798
penetrating radiations, seminar at Leningrad, USSR studies	10359	reconnaissance in Wind River Basin, Wyo.	5647
research project, annual report	4316	survey of southern California project located in California and Arizona, summary	8402
<b>Radioactive, see Carbon isotopes.</b>		analysis of uranium in ores	1392
<b>Radiochemistry:</b>		apparatus, used, handbook, USSR study	17515
analysis of air-filter samples collected in 1957	5346	use in prospecting of uranium ores	13794
Components and Techniques Laboratory, quarterly progress reports	117, 7073	<b>Radionuclides:</b>	
<b>Radioelectronics:</b>		in plankton near Marshall Island, 1956	3168
Communist China, views on development	5098	maximum permissible body burdens and concentrations in air and water for occupational exposure	9396
semiconductor devices, USSR symbols, etc.	9263	Radiophysics, Soviet abstracts	711, 1848, 1855
uranium distribution in aluminum-clad fuel plates, determination by X-ray densitometry	5648	<b>Radiosensitivity, cell organelles, USSR study</b>	6595
use of Roentgen units and ultrasonic defectoscope in sanitary evaluation of food products, USSR studies	3721	<b>Radiosondes:</b>	
		A-22-III, basic features, USSR study	3709
		aircraft dropsondes, USSR studies	3710
		ascent, method of calculating height, taking into account strength of balloons at low temperature, USSR study	9166

# INDEX, 1959

	Entry		Entry
<b>Radiosondes—Continued</b>		<b>Railroad employees—Continued</b>	
code, manual.....	17891	wives, reduced benefits at 62 years, hearings.....	6075
comb-type with electric motor, USSR description.....	5117	Railroad retirement act, <i>see</i> Rail- road employees.	
observations, manual.....	13660	Railroad Retirement Board: appropriations, 1960— hearings.....	5913, 8884
possibility of using temperature data for hydrological computa- tions and forecasts, USSR study.....	6587	law.....	14013
pressure comb, changing to extend range, USSR studies.....	1871	reports.....	7392, 9999
Radiotelegraphy, <i>see</i> Radio communi- cation.		member, nomination of Horace W. Harper, hearing.....	16217
Radiotherapy, in combination with traditional Chinese and West- ern medicine, contributions forecast.....	9196	monthly review.....	2902, 11445
<i>see also</i> Radiation.		subject index.....	4039
Radium:		operations, statistical summary....	2903, 11446
history, uses, etc.....	15033	report, 1958— departmental edition.....	8204
poisoning, dosimetry and instru- mentation techniques in ap- plied radioactivity.....	4308	document edition.....	7327
Radon:		Railroad Safety Section, report, 1958.....	3640
equation of continuity of transport by natural gas.....	14744	Railroads:	
physical behavior and geologic con- trol in mountain streams.....	3597	bankruptcy act, amend sec. 77 (c) (6), hearings.....	335
Rafaella, Sister, <i>see</i> Siculo, Angela.		carload cost by territories, 1957....	545
Rafters, segmental for Gothic-roofed farm buildings.....	9102	carload traffic, freight rates, in- dexes, 1949-57.....	16494
Rafts, <i>see</i> Life rafts.		carload waybill statistics, quar- terly comparisons.....	11232
Railroad accidents:		carload waybill statistics, 1956, tons of revenue originated and terminated by States and by commodity class.....	3625
accident bulletin.....	1730	carload waybill statistics 1957— agricultural products.....	6332, 6335
all line-haul and switching and ter- minal companies, summary....	2717 11256	all commodities.....	4962
Investigation reports.....	546-548, 1737, 3634-39, 4964, 6338-42, 7884-87, 9151-53, 10206-208, 12798-99, 14789-793, 16496- 500, 17512.	animals and products.....	3626, 4961
rail-highway grade crossing acci- dents, 1958.....	16405	forest products.....	3627, 6333
reports to ICC, amend act, hearing..	14566	manufacturers and miscellaneous and forwarder traffic.....	7879
Railroad Adjustment Board, <i>see</i> Na- tional Railroad Adjustment Board.		mileage block distribution, traf- fic and revenue by commodity class.....	6331
Railroad cars:		mileage block progressions by commodity groups and classes....	12789
equipment of class 1 railroads....	2703, 11242	mileage distribution by type of car.....	7878
persons furnishing cars, summary of quarterly reports.....	2718, 11257	mine products.....	4963, 6334
railway ambulance train for oper- ation on broad-gage foreign railroads, design and construc- tion.....	6979	territorial distribution by type of car.....	9147
USSR economic problems of utili- zation.....	7946	tons of revenue originated and terminated by States and commodity.....	7880
<i>see also</i> Dining cars—Freight cars—Passenger cars.		traffic and revenue, distribution by commodity classes.....	1733, 4960
Railroad crossings, accidents, 1958..	16495	weight distribution by type of car.....	9148
Railroad employees:		carload waybill statistics, 1958— agricultural products.....	12791, 17508
retirement act, amend—		all commodities.....	10204
hearings.....	4660, 6075	animals and products.....	12790, 16493
law.....	8513	forest products.....	12792, 17509
reports.....	5882, 73716, 7561	mileage block distribution, traffic and revenue by commodity class, etc.....	17508-510
views.....	5882	mines products.....	12793, 17510
retirement and unemployment in- surance acts, text as amended, 1959.....	17063	traffic and revenue, distribution by commodity classes.....	12794
retirement tax rate, increase— hearings.....	4660, 6075	class 1— freight commodity statistics, an- nual, errata.....	6336
law.....	8513	freight commodity statistics, quarterly.....	2700, 11239
reports.....	5882, 7376, 7561	freight train performance.....	2701, 11240
views.....	5882	fuel and power statistics.....	2702, 11241
unemployment insurance act, amend—		income and balance-sheet items..	2716, 11255
hearings.....	4660, 6075	motive power and car equipment..	2703, 11242
law.....	8513	operating revenues and ex- penses.....	2706, 11245
reports.....	5882, 7376, 7561	passenger traffic statistics.....	2709, 11248
views.....	5882		
wage statistics, class 1 railroads..	2721, 11260		

# JANUARY-DECEMBER

	Entry		Entry
<b>Railroads—Continued</b>		Rama Road, construction, completion, appropriations, hearing	321
class 1—Continued		Ramjet engines, <i>see</i> Engines (aircraft).	
passenger train performance	2710, 11249	Rancidity, fishery products, measurement by 2-thiobarbituric acid method	4853
petroleum products, distribution	2699, 11238	Random sampling (address)	6996
revenue traffic statistics	2712, 11251	Range fires on public domain, remarks	13301
yard service performance	2722, 11261	Range lands:	
East German—		Federal, abandoned horses problem in range management and conservation	1977
duties of railroad properties administration, review and present situation	811	mountain bunchgrass, rest-rotation management system	6238
Reichsbahn, enterprise service and traffic service, problems	809	pitting for improvement in Great Plains and southwest desert regions	112
engineering and design manual	10086	publications, price list	6906
freight revenue and wholesale value at destination of commodities	1735	soil compaction as related to soil and water conservation	3074
interstate commerce act, supplementary acts, etc.	9150	Rapides County, La., land transferred, use for educational purposes, hearing	14328
large railroads—		Rapides Parish, La.:	
operating revenues and expenses	2707, 11246	land transfer, law, repeal—	
operating statistics	2708, 11247	law	15650
lessors and proprietary companies		report	15817
index	9154	Rare earths:	
report, 1957	1738	chlorides and nitrates in aqueous solutions, relative molal heat contents	1385
report, 1958	16502	compounds, thermodynamics	8051
loan guaranties under transportation act of 1958, opinion of Attorney General	5157	elements—	
mail transportation (remarks)	6895-97	atomic spectra, references	1102
officers, directors, etc., compensation	14786	bastnaesite, separation by ion exchange	17713
operation in USSR, ways of solving basic scientific problems	12917	extraction from bastnaesite concentrate	9354
revenue contribution, distribution	1734, 14788	extraction from euxenite carbonate residue, procedures	17712
safety appliance acts	12800	minerals and metals, minerals year-book chapter	15034
shipments, fresh fruits, vegetables, and melons, effect of heavier loading on marketing (address)	7013	Mines Bureau metals research, electrolysis emphasis	13330
trackage, adequate transportation facilities, etc., at naval establishments	17896	nitrates, ignition processing conditions for separation of cerium	5645
train communications system, statistics	549	radioactive deposit at Scrub Oaks Mine	6287
<i>see also</i> Railroad employees—		selection and evaluation for application to advanced weapons system	15365
Electric railroads.		spectrographic analysis of elements	6667
Railway cars, <i>see</i> Railroad cars.		<i>see also</i> names of rare earths.	
Railway Express Agency:		Rarefied atmosphere, <i>see</i> Atmosphere.	
equipment and facilities, acquisition by Post Office Department, desirability investigation, expenses, reports	4701, 4703	Rarefied gases, <i>see</i> Gases.	
transport statistics, 1958	16502	RAS series	3043, 17189
Railways, <i>see</i> Electric railroads—		Rate setting by Army-Air Force Wage Board	885
Railroads.		Rater tendencies in estimating qualifications required by Air Force tasks	17233
Rain:		Rates, <i>see</i> Air carriers—Freight rates.	
intensity-frequency—		Ratings:	
Middle Atlantic region	2176	Air Force personnel—	
northeastern United States	13662	aeronautical, Air Force manual	126
rainfall—		peer ratings consistency and variability	9646A
and drought prevention in North Vietnam, relationship	6404	task statements for determining job qualifications	15358
sampling on San Dimas Experimental Forest, simplified method	7806	Navy, training publications for advancement	9433
sulfur content in southern States as related to crop needs	4197	Rations:	
USSR territory, showers and steady rainfall, distribution	1888	Armed Forces, special	17062
<i>see also</i> Precipitation.		food, standardization, by season and climatic zone, USSR study	12959
Rainfall, <i>see</i> Rain.		Navy statute, amend, report	16123
Raising with suspended work cage at Irene shaft, Leadville, Colo.	925	<i>see also</i> Food for livestock.	
Raisins, cleaner for removing insects	15255		
Raleigh, N.C., Federal-State-local relations, hearings	3327		
Raleigh scattering, <i>see</i> Scattering.			
Ramjet engines, <i>see</i> Engines (aircraft).			

# INDEX, 1959

	Entry		Entry
Rats:		Reactors (atomic)—Continued	
control, anticoagulant baits-----	7761	aircraft experiment, operation-----	9661
thick-spined-----		aircraft nuclear propulsion pro-	
new form from Isla Escudo de		gram-----	
Veraguas, Panama-----	10585	hearing-----	15748
review of genus <i>Hoplostys</i> -----	10585	report-----	15749
Raw materials, Communist China,		Army package power-----	
translations-----	17551	design analysis for flow and tem-	
Raydist, control for hydrographic sur-		perature measurement pro-	
veys on Georges Bank-----	17303	gram-----	172
REA, <i>see</i> Rural Electrification Ad-		fuel plates, fabrication tech-	
ministration.		niques and manufacturing	
REA bulletins-----	5399, 6925,	specifications-----	191
9481-82, 10575, 13570, 15179		inspection and service manual-----	4311
Reaction kinetics, <i>see</i> Kinetics.		operating manual-----	4311
Reactions (chemical), <i>see</i> Chemical		research and development pro-	
reactions.		gram, shielding experiments-----	9658
Reactions (nuclear), <i>see</i> Nuclear re-		boiling water-----	
actions.		bibliography-----	15418
Reactivity, biological, nature and		power plant for propulsion of	
classification, USSR study-----	14936	commercial tanker, design-----	7144
Reactor fuel elements:		study-----	11751
APPR-1, temperature measure-		Brookhaven reactor gamma flux	
ment-----	172	measurement by calorimetry-----	5640
BNL-1 reactor, critique of design		built, building or planned in U.S.,	
and burn-up performance-----	3166	June 30, 1959-----	15429
civilian, report-----	15432	closed cycle boiling water reactor,	
conference, papers-----	15425	feasibility of using for propul-	
nuclear fuel elements, slip casting		sion of merchant ship, investi-	
properties of coextruded Zircaloy-	17248	gation-----	5642
clad uranium with integral		addendum-----	5643
end seals, development-----	15410	cobalt-60 production reactor, unit	
reactor fuel measurement tech-		cost of cobalt production-----	177
niques symposium, papers pre-		controlled recirculation boiling,	
sented-----	4328	Pathfinder atomic power plant	
thermoelectric, progress report-----	11752,	progress report-----	3155, 7140, 13791
	17269	core materials, review of recent	
thermoelectric nuclear, feasibility,		developments-----	2326, 10774
progress report-----	4334	criticality studies, literature	
Reactor fuel plates:		search-----	13800
aluminum-clad, quantitative deter-		cylindrical, computer program for	
mination of uranium loading		solving 9-group diffusion equa-	
by X-ray densitometry-----	5648	tions, analysis and discussion-----	3943
APPR, fabrication techniques and		dedication of nuclear reactor at	
manufacturing, specifications-----	191	Ispra, Italy (remarks)-----	5660
Reactor fuels:		designers, comments on proposed	
and fuel combustions, combustion		expanded civilian nuclear	
in 3.84 by 10-Mach 2 wind tun-		power program-----	1510
nel-----	6752	Enrico Fermi, description and de-	
boron use, investigation-----		sign-----	11721
hearings-----	15969	fast reactor information meeting,	
report-----	15932	proceedings, 1957-----	7161
breeding, literature search-----	13801	gas-cooled, components, develop-	
derived from metallic uranium,		ment of iron-aluminum base	
contribution to study-----	11718	alloys for service, progress	
fluid, report-----	15433	report-----	7146
irradiated fission, and breeding ma-		gas-cooled power, design param-	
terial, reprocessing, list of re-		eters and design features,	
ports-----	9666	symposium-----	4331
irradiated fission reprocessing, an-		heavy water moderated power plant	
notated bibliography of re-		design-----	13811
ports-----	9664	industrial processes and space heat,	
measurement techniques sympo-		literature search-----	17263
sium, papers presented-----	4328	maritime organic moderated and	
processing, review of recent devel-		cooled-----	15409
opments-----	2327, 10775	MPR zero power test core nuclear	
uranium dioxide fuel materials with		studies-----	11728
improved thermal conductiv-		NASA facility hazards summary-----	3940,
ity-----	11736		5299
uranium, fabrication facilities,		national nuclear energy program,	
health and safety considera-		economic potential and devel-	
tions-----	176	opment (remarks)-----	17273
Reactor power plants, <i>see</i> Nuclear re-		naval propulsion, conditions of	
actor power plants.		probability (paper)-----	13797
Reactor Safeguards, Advisory Com-		naval reactor program, review,	
mittee on, <i>see</i> Advisory Com-		hearings-----	12030
mittee on Reactor Safeguards.		neutron, reactivity, and isotopic	
Reactor safety, <i>see</i> Safety of life.		history, RBU digital computer	
Reactors, electronic equipment, lam-		program for detailed calcula-	
inated iron-core, CAA specifi-		tion-----	9659
cation-----	232	NRL nuclear reactor control system	
Reactors (atomic):		Man-machine factors-----	8149
advanced engineering test, concep-		NRL research-----	
tual design-----	5639	code for electronic digital com-	
aircraft, digital start-up control-----	15414	puter NAREC-----	13515



# JANUARY-DECEMBER

	Entry		Entry
Reactors (atomic)—Continued		Reading:	
NRL research—Continued		foreign languages in secondary	
fast-neutron beam currents		school, prereading instruc-	8940
emerging from core, measure-		tions.....	3110
ment.....	3987	guide, Air Force.....	
neutron flux measurements and		Readjustment allowances, <i>see</i> Pay, al-	
power determination.....	5340	lowances, etc.	
nuclear energetics.....	1378-79	Ready reserve, <i>see</i> Reserve compo-	
nuclear power costs.....	13812	nents of Armed Forces.	
nuclear, strain-energy absorption		Reagents, lowering consumption, re-	
potential as criterion for de-		sults at Kirovgrad concentrat-	
termining optimum reactor-		ing factory, USSR.....	10267
vessel containment design.....	2007	Real estate:	
nuclear system, indirect-cycle to		Air Force, property accountable	
furnish process, heat, engi-		records, Air Force manual.....	3008,
neering and design concepts.....	13322	4219, 5582	
nuclear technology, analytical		conveyance to Sacramento County,	
chemistry—		Calif., report.....	16124
instrumentation, remote control		conveyance to Sophronia S. Delaney	
techniques, and nucleonics.....	8409	and sons—	
particle-size analysis.....	8410	hearings.....	8875, 14328
specific applications of diverse		law.....	13972
methods of analysis.....	7155	reports.....	9944, 14186
OMB-type cores for marine propul-		conveyed to Louisiana State Uni-	
sion, interim studies.....	5646	versity and Agricultural and	
organic cooled power reactor study.	13809	Mechanical College, use for ed-	
organic moderated, for propulsion		ucational purposes—	
of 38,000-dwt tanker refer-		hearing.....	12539
ence design and engineering		report.....	16094
drawings.....	7147	Defense Department project.....	
organic moderated, small (10-40		hearings.....	8723, 9900-1, 12277
Mwe) technology and econ-		report.....	3319
omics.....	17267	Federal, payment to local Govern-	
physics, naval handbook, intermedi-		ments in lieu of taxes—	
ate spectrum reactors.....	8421	minority views.....	16113
power—		report.....	16113
civilian program, recent develop-		Government-owned in U.S., terri-	
ments (remarks).....	9673	ories, etc., inventory report.....	12287
civilian reactor fuel elements,		leased to U.S. throughout world,	
report.....	15432	1958.....	6281
D <sub>2</sub> O-moderated, symposium.....	15427	living units.....	
design studies, AEC summary		standards.....	3461
and evaluation report.....	15431	review.....	6125
fluid fuel, report.....	15433	loans, State-guaranteed, made by	
origin and disposal of wastes.....	3161	national banks, exempt from	
power plant study for AEC.....	11744	Federal reserve act.....	12427
power reactor technology, review of		misrepresentations in advertising	
recent developments.....	2325, 10773	properties, report.....	3378
pressurized water—		owned by U.S. throughout world,	
advanced, study.....	13810	1958.....	3592
literature search.....	9667	Solano County, Calif., exchange	
Shippingport, engineering materi-		law.....	14016
als list.....	4326	reports.....	8654, 12449
research and development in		southwest D.C. redevelopment tax	
safety.....	11759	problem, amend D.C. redevel-	
rocket motors, reactor-heated, hy-		opment act, report.....	7500
drogen and water as working		surplus, appraisal expenses, amend	
gases.....	15086	Federal property and admin-	
safety, literature search.....	4324	istrative services act—	
shielding, engineering study.....	1382	law.....	14068
small, feasibility, statistical sur-		reports.....	6008, 8632
vey, generating cooperatives		transfers for wildlife purposes under	
and municipalities.....	15434	surplus property act, hear-	
thermoelectric, progress report.....	11752	ings.....	17353
thermonuclear—		<i>see also</i> Farms—Mortgages.	
development program, ORNL.....	8401	Real property, <i>see</i> Real estate.	
papers presented at conference.....	1396	Ream, Grace C., relief.....	5959
welding, inspection, and material		Reardon, William R., and wife, relief.....	4511
specifications.....	1393	Reasoning, questions of logic, sym-	
Yankee Atomic Electric Company,		posium to develop free discus-	
hazards summary report, li-		sions and promote intensive	
cence application.....	194	study, China.....	14812
Yankee core support structure		Receipts and expenditures, <i>see</i> Ex-	
model, deflection and stress		pensitures of United States	
analysis.....	5652	Government—Finance.	
Yankee power reactors, research		Receivers (radio):	
and development program—		c-w and a-m, technical manual,	
critical experiments hazards re-		change.....	13788
port.....	9669	fading properties of fluctuating	
progress report.....	193,	signal imposed on constant signal,	
	1399, 8417, 5653, 17272	theoretical investigations.....	8097
<i>see also</i> Nuclear reactor power		home-type, facts for industry.....	8455
plants.		Vanguard satellite command re-	
		ceiver, description.....	2088

# INDEX, 1959

	Entry		Entry
<b>Receivers (radio)—Continued</b>		<b>Reconnaissance (geologic):</b>	
wire diffusion—		Camp Irwin, Calif.	7859
equipment network techniques—	833	Ruby Range and Sweetwater Basin,	
long-range plans (USSR)-----	834	Mont	15415
<b>Receptors:</b>		uranium deposits in Wind River	
visual, auditory, vestibular and ol-		Basin, Wyo.	5647
factory—		Valley of Fire-Muddy Mountains	
exclusion at early age effect on		region, Nev.	13798
cerebrum, USSR studies-----	1811	volcanic activity, Garelol Island,	
total exclusion, USSR method-----	1771	Aleutian Islands, Alaska-----	7845
<b>Recession, see Business recession.</b>		<i>see also</i> Geology.	
<b>Recession, recovery and employment</b>		<b>Reconstruction Finance Corporation:</b>	
<b>opportunities for young work-</b>		act and other laws, compilation--	1512
<b>ers-----</b>	9314	final report-----	10627
<b>Recipes:</b>		Record players, <i>see</i> Phonographs.	
Air Force foil pack meal guide-----	11687	<b>Recorders, see Recording instruments.</b>	
Air Force manuals-----	135, 9628	<b>Recording instruments:</b>	
apples-----	11628	automatic data recording devices,	
dried eggs-----	9571	research-----	15359
fish-----	6203	automatic M-12, wind velocity	
fish and seafood, consumer educa-		measurements, accuracy, USSR	
tion program-----	14662	studies-----	1870
fish and shellfish, publications		recording surfaces and marking	
available from Superintendent		methods survey-----	16937
of Documents-----	10558	VGH and V-G data from piston-en-	
scallops-----	12692	gine, transport airplanes,	
school lunch, using dried eggs-----	11563	1947-58, summary-----	16876
turkey on table year round-----	95	<b>Recordings, see Sound recordings.</b>	
<b>Reclamation Bureau:</b>		<b>Records:</b>	
appropriations, 1960, public works,		disposition workshop, Interagency	
hearings-----	8721, 10027	Records Administration Con-	
laws affecting, compilation-----	8205	ference-----	9389
operation and maintenance equip-		documentary material pertinent to	
ment and procedures release-----	2904, 11450	antitrust investigations, com-	
<b>publications—</b>		pel production-----	
available for free distribution-----	2118,	minority views-----	12399
6924, 11448		report-----	12399
available for sale-----	2905, 11449	<b>Government departments, etc.—</b>	
releases-----	2909, 11453	availability, hearing-----	14572
reports, 1958-----	4042, 6921	disposition, reports-----	4614-15,
<b>Reclamation era-----</b>	2906, 11451	5863, 7375, 7396, 8635, 8699,	
<b>Reclamation of land:</b>		9864, 9887, 12188, 12263, 14302-	
dams for reclamation-----	1158	303, 15915, 15917.	
deferments in payment of construc-		<b>Government departments, publish</b>	
tion charges, make authority		reports of executive depart-	
permanent—		ments, etc-----	7633
law-----	15673	locker and freezer provisioners in-	
reports-----	7388, 14533	dustry, uniform accounting	
<b>Federal laws compilation-----</b>	8205	guide-----	13723
<b>Federal program, accomplishment</b>		<b>management—</b>	
<b>and contributions, report-----</b>	4658	Air Force manuals-----	138, 5588
<b>irrigation distribution systems,</b>		handbook-----	5308
<b>transfer title-----</b>	14435	Interior Department field offices,	
<b>lower Colorado River, reclamation</b>		workshop reports, etc-----	16485
<b>projects, development, etc-----</b>	5395	<b>opportunities in private indus-</b>	
<b>National Reclamation Association</b>		<b>try-----</b>	6798
<b>conference with Senate Com-</b>		<b>officers, what group creative think-</b>	
<b>mittee on Interior and Insular</b>		<b>ing can do in way of new</b>	
<b>Affairs, proceedings-----</b>	12542	<b>Ideas-----</b>	15090
<b>present problems and future chal-</b>		<b>papers in Library of Congress, reg-</b>	
<b>lenges (address)-----</b>	17834	<b>ister—</b>	
<b>project construction, etc., feasibil-</b>		Corey, Herbert-----	5180
<b>ity criteria, establish, hear-</b>		Davis, James L-----	908
<b>ings-----</b>	1551	Loening, Grover C-----	8017
<b>project repayment histories and</b>		McAdoo, William G-----	6640
<b>payout schedules, 1902-57-----</b>	2117	Walte, Morrison R-----	14978
<b>summary-----</b>	6923	White, Wallace H-----	5182
<b>projects, settlement opportunities,</b>		<b>preservation of documents by lami-</b>	
<b>publications-----</b>	1160	<b>nation-----</b>	17770
available for free distribution,		protecting vital operating records--	5308
by Reclamation Bureau-----	6924	public land, Land Management Bu-	
available for sale by Reclama-		reau improvement project, etc	
tion Bureau-----	2905, 11449	<i>see also</i> Medical records—Military	
strip-mine plantations in western		records—Personnel records--	
Kentucky, tree species recom-		also names of departments,	
ended-----	9092	etc.—also subjects.	
<i>see also</i> names of projects.		<b>Recreation:</b>	
<b>Reclamation projects, see Reclama-</b>		act of 1926, amend to increase acre-	
<b>tion of land—also names of</b>		age limitations on Federal land	
<b>projects.</b>		transferred to State, etc.—	
<b>Reclamation today and its challenge</b>		law-----	15657
<b>for tomorrow (address)-----</b>	17834	reports-----	12233, 12455, 15918
<b>Recognition of lead poisoning in</b>		agencies, surplus property dona-	
<b>child-----</b>	1153	tion, hearings-----	17353

	Entry		Entry
<b>Recreation—Continued</b>		<b>Red Wing, Minn. :</b>	
Chepino Basin and Vellingrad, Bulgaria, description, etc., of potentialities.....	851	engineer report on harbor—	
director, examination announcement.....	1486	departmental edition.....	387
suspension notice.....	13895	document edition.....	305
equipment, Federal supply schedule.....	12674	Redcedar, <i>see</i> Cedar.	
facilities and activities at public housing projects are open to community.....	8201	<b>Redevelopment (city planning, etc.) :</b>	
facilities, special services.....	17897	depressed industrial and rural areas—	
land for use, conveyance to Kentucky, hearing.....	12539	hearings.....	4737, 5922, 6049
<i>see also</i> Boating.		reports.....	5992, 7426
<b>Recreation Resources Review Commission.</b> <i>see</i> Outdoor Recreation Resources Review Commission.		views.....	5992, 7426
<b>Recreational areas and demonstration projects.</b> <i>see</i> names of recreational areas.		<b>urban renewal program—</b>	
<b>Recruiting, <i>see</i> Civil service.</b>		interest rates on title 1 loans and advances applicable to contracts executed Jan. 1-June 30, 1959.....	6990
<b>Recruiting and enlistment :</b>		<b>manual</b> .....	5452, 11531
Air Force, enlistment and reenlistment, Air Force manual changes.....	127, 3091-92, 8349	local public agency letters.....	5451, 11529
Armed Forces reserve act special enlistment programs, extend—		operations under title 1, Housing act of 1949, report.....	11530
hearings.....	4636, 12524	project characteristics, 1958.....	9535
law.....	11983	project directory.....	11532
reports.....	4593, 5841, 10009	URA report of operations.....	6994
Army, management program.....	7131	urban planning assistance program.....	8204
Army recruiting journals.....	2185, 10642	<b>Redfish, <i>see</i> Rosefish.</b>	
enlistment screening test evaluation for predicting Armed Forces qualification test performance.....	5470	<b>Reduction of Nonessential Federal Expenditures Joint Committee, committee prints.....</b>	2462, 10994
Foreign Service personnel, hearing, look at you in U.S. Navy, women's opportunities.....	16974	<b>Reductions in force, <i>see</i> Government offices.</b>	
National Guard—		<b>Reed, Daniel A., memorial services.....</b>	17309
NGR regs.....	6805	<b>Reenlistment, <i>see</i> Recruiting and enlistment.</b>	
recruiting pamphlet.....	16944	<b>Reese, Doris A., relief.....</b>	14157
Navy Nurse Corps, join skillful team of nurses and doctors.....	9430	<b>Referees in bankruptcy :</b>	
Recruiting bulletin, Agricultural Marketing Service.....	2218, 10673	fees for salary fund, amend bankruptcy act—	
<b>Rectifiers :</b>		law.....	7313
crystal unit, Federal supply schedule.....	408	reports.....	4622, 7543
power supply, ILS, CAA specifications.....	238	filing time for review of orders, report.....	9884
<i>see also</i> Oxygen rectifiers.		<b>salary and expense funds, consolidated—</b>	
<b>Recurrence of planetary high frontal zones of natural synoptic periods.....</b>	1944	law.....	11997
<b>Recurvara milleri, <i>see</i> Lodgepole needle miner.</b>		reports.....	5881, 9995
<b>Red alder, <i>see</i> Alder.</b>		transmission of papers, repeal requirement—	
<b>Red China, <i>see</i> China.</b>		law.....	11950
<b>Red flag (Chinese periodical) :</b>		reports.....	5878, 8823
articles.....	5016, 6354A, 9161, 9176, 9178, 9180, 9193, 9236, 10235, 12889, 14810, 14840, 16516, 16538, 17543, 17558	<b>vacancies, in office, simplify filling—</b>	
<b>Red oak, <i>see</i> Oak.</b>		law.....	12021
<b>Red pine, <i>see</i> Pine.</b>		reports.....	5879, 12459
<b>Red River, <i>see</i> Prairie Dog Town Fork of Red River—Salt Fork of Red River.</b>		<b>Reference guide series.....</b>	5318, 16948, 17777
<b>Red Sea, sailing directions.....</b>	1720	<b>Refinement of values for yard and pound.....</b>	17771
<b>Red tide :</b>		<b>Refineries, <i>see</i> Petroleum refineries.</b>	
Florida—		<b>Refining, <i>see</i> Smelting.</b>	
copper sulfate as control method, large-scale experimental test.....	6197	<b>Reflection, nature of individual consciousness of man as highest degree of mental development, USSR study.....</b>	14933
addendum.....	10135	<b>Reflexes :</b>	
west coast, counts of organisms and associated oceanographic data 1954-57.....	12688	conditioned—	
<b>Red wheat, <i>see</i> Wheat.</b>		defense, electrical phenomena in cortical terminals, analyzers in dogs during formation, investigation (USSR).....	632
<b>Red Willow Dam and Reservoir and associated works, Interior Dept. report.....</b>	1517	gradual intensification of inhibitory stimulus effect, USSR studies.....	1896
		relation in dogs to EEG changes.....	857
		contribution of reflex concept to psychology, USSR study.....	14932
		effects from internal organs on function of gastro-intestinal tract in irradiated animals, USSR study.....	5122
		extrapolational, biological significance in animals, USSR studies.....	6603

# INDEX, 1959

Entry	Entry
<b>Reflexes—Continued</b>	<b>Refuse—Continued</b>
higher nervous activity, functional changes of dogs during long-term exposure to small doses of ionizing radiation.....	national status on control of garbage-feeding..... 2282, 10734
14855	<b>Regeneration (biology) :</b>
intero- and exteroceptive conditioned, formation in various stages of ontogenesis, USSR studies.....	bottomland hardwoods, southern New Jersey..... 17473
1809	USSR Academy of Medical Sciences endocrinological studies on problems..... 815
orientative and protective pupillary reactions.....	Regina, Sister Mary, <i>see</i> Liszi, Mari.
14914	<b>Registers :</b>
orientation, electroencephalographic research on temporary association with dampening in man, USSR studies.....	Air Force—
3803	departmental edition..... 4131-32
prematurely born children, conditioned food reflexes to light, development, USSR studies.....	document edition..... 4452-53
1895	Air National Guard..... 6804
renal function, ontogenetic changes in regulation, USSR study.....	Army—
16628	departmental edition..... 5630-32
spinal reflex arcs, rate of maturing in rabbits, USSR study.....	document edition..... 5799-5801
14952	Coast Guard..... 17306
USSR studies of dienocephalic mechanisms and processes of higher nervous activity, aspects.....	Coast Guard Reserve..... 4407
1773	courts of U.S., 1959..... 874
<b>Reforestation, <i>see</i> Forest planting.</b>	Federal register..... 2555, 11093
<b>Reformatories :</b>	codification guide..... 11093
Federal land in vicinity, Attorney General to acquire for protection of inmates—	indexes..... 2556, 11093
law..... 15651	Justice Dept., 1959..... 874
reports..... 15832, 16103	labor attaches..... 9145
investigation of institutions for rehabilitation, etc., of juvenile delinquency, hearing.....	Military Academy, West Point, 1958..... 3837
337	National Guard, 1959..... 8101
<b>Refractive index, infrared dispersion of liquids.....</b>	Naval Academy, Annapolis, 1958-59..... 3978
8151	Navy and Marine Corps, officers—
<b>Refractories, <i>see</i> Refractory materials.</b>	departmental edition..... 9431
<b>Refractory materials :</b>	document edition..... 8532
catalog of technical reports.....	papers in Library of Congress—
15446	Corey, Herbert..... 5180
development, research program of Mines Bureau.....	Davis, James J..... 908
16711	Loening, Grover C..... 8017
metals and alloys, literature search.....	McAdoo, William G..... 6640
4323	Waite, Morrison R..... 14978
plant, China, design.....	White, Wallace H..... 5182
12906	planned emergency producers..... 17366
refractories, facts for industry.....	Registration, <i>see</i> subjects.
2372, 10903	Registry, <i>see</i> Ships.
refractories (USSR periodical), abstracts.....	<b>Regraining of offset duplicating plates, Federal supply schedule.....</b>
10861	14650
<b>Refrigerated storage, <i>see</i> Cold storage.</b>	<b>Regression tests, Army personnel classification simplified patterns.....</b>
<b>Refrigerated storage warehouses, <i>see</i> Warehouses.</b>	9565
<b>Refrigeration and refrigerating machinery :</b>	<b>Regulations, <i>see</i> Code of Federal regulations—also names of departments, etc., issuing regulations—also subjects.</b>
equipment, 1958, facts for industry.....	Regulatory agencies, <i>see</i> Government offices.
15470	Regulatory announcement, Fish and Wildlife Service..... 7752, 16387
equipment, rating conditions for design, military standard.....	Rehabilitation, <i>see</i> subjects.
14588	<b>Rehabilitation of the disabled :</b>
milk cooler, how to make it heat water.....	blind and visually impaired persons, vocational opportunities..... 2172
9587	casework performance in vocational rehabilitation..... 9540
sole, changes in composition.....	centers today report on operations..... 5454
430	effective program through Federal and State agency cooperation..... 17888
<b>Refrigerator cars :</b>	post-Korean veterans readjustment assistance—
perishable foods, laboratory tests.....	hearings..... 10050
17201	report..... 12434
transit temperatures for California mature-green tomatoes.....	views..... 12434
13731	psychological services..... 15236
<b>Refugees :</b>	rehabilitation service series..... 5454, 9540, 17888
and escapees from communist tyranny, investigation, report on findings.....	VR-ISC series..... 2172
5989	Reid, Ogden R., nomination, hearings..... 7615
emigration of refugees and escapees from communist tyranny, investigation, authorization, report.....	Reid Inlet, geology and ore deposits..... 4925
3374	Reindeer, St. Matthew Island, range study..... 14676
Hungarian—	Reinforced plastics, <i>see</i> Plastics.
status of programs, report.....	Reinke, William, relief..... 9953
12559	Reitberger, Berta, relief..... 4535
resettlement, organization and work of President's committee.....	Rejman, Stanislaw, <i>see</i> Siedlecka, Stanislaw.
5375	
<b>Refuges, <i>see</i> Wildlife refuges—also names of refuges.</b>	
<b>Refunds of taxes, <i>see</i> Tax refunds.</b>	
<b>Refuse :</b>	
combustible waste materials, including garbage incinerator design, engineering manual.....	
12615	



# JANUARY-DECEMBER

	Entry		Entry
Relationship between exploration, surveying, and prospecting-----	5154	Renovizing :	
Relativity (physics) :		post office modernization program, how it creates new construction markets, study-----	15452
clock problems, theories recorded in literature, bibliography-----	9434	small retail stores, modernize to convert into sales builders-----	8220
Releases, see name of office issuing releases.		Reorganization of Government activities, see Government reorganization plans.	
Reliability prediction and test results on USAF ground electronic equipment-----	3119	Repair parts :	
Reliability stress analysis for electronic equipment-----	2127	aircraft, approved and supplemental type certificates summary-----	16311
Relief supplies and packages, agreement with Ghana-----	8251	automotive, wholesaling, Federal wage-hour law application-----	5457
Relief work :		Repair shops, auto dealer, wage structure, summer 1958-----	6630
disaster communication service, FCC rules and regulations-----	17404	Repair stations, Soviet, financial and operational plans-----	3692
disaster relief, status of funds and summary of allocations to each State, report-----	8545	see also Aircraft repair stations.	
emergency rescue, Air Force manual-----	9625-26	Repairing, handbook, dental technicians, Navy training course-----	6845
famine relief to friendly countries, extend law-----		see also subjects.	
hearings-----	12273	Repairmen, see Mechanics (persons).	
law-----	15706	Repatriation, American nationals from foreign countries, emergency assistance, report-----	16075
minority report-----	14262	Repellents, reduce cattle browsing on pines-----	6275
reports-----	12441, 14262, 14289, 15919	Repetition in process of development, USSR-----	16614
Federal disaster manual, report-----	14519, 14562	Report to Nation, program for peace in Europe-----	10594
hungry children problems in D.C., hearings-----	8887	Reporter, clearinghouse of studies on higher education-----	10073
surplus property donations to welfare agencies, hearings-----	17353	Reporters and reporting :	
see also Foreign aid.		closed microphone reporter, examination announcement-----	1489
Religions :		House of Representatives, transcribers, etc., official committee reporters office and official reporters of debates office, fix compensation, reports-----	5846, 14271
Bulgaria, teachers assist Komsomol in fighting religion-----	14946	shorthand reporter, examination announcement-----	1489
China, selected translations-----	4969, 5089	discontinuance notice-----	257
Communist China-----	704	Reports :	
translations from political and sociological publications-----	17554	National Guard regulations-----	5315
of the Chi'ang-----	1172	required from labor organizations, labor-management reporting and disclosure act of 1959-----	17660
religious articles, on Communist China, selected translations-----	5089	required from labor relations consultants, labor-management reporting and disclosure act of 1959-----	17761
Religious activities :		to be made to Congress-----	
Communist China, articles-----	6563	discontinuance in certain cases, report-----	6015
communist controls, hearing-----	7634	list-----	3281
PACAF basic bibliographies-----	11676	see also names of departments, etc., issuing reports-----also subjects.	
Religious articles, duty free entry, report-----	14217	Representatives, see House of Representatives.	
Religious liberty :		Reproduction :	
guaranty for peoples of countries receiving mutual security aid-----		bitterbrush plants can be propagated from stem cuttings-----	17477
report-----	9849	upland hardwoods, cutting practice demonstrations-----	14712
views-----	9849	Reptiles, Eosaurus copei Williston, oldest known reptile-----	8223
Religious persecution, see Persecution.		Republic of China, see China.	
Relocation housing-----	16323	Republic of Haiti, see Haiti.	
Remember the necessities of life, USSR-----	847	Republic of Ireland, see Ireland.	
Remodeling, see subjects.		Republic of Korea, see Korea.	
Remote control, in nuclear reactor technology, analytical chemistry-----	8409	Republic of Panama, see Panama.	
Remote radiological monitoring-----	11755	Republic Steel Corporation Research Center dedication (address)-----	9356
Removing stains from fabrics, home methods-----	8315	Republican Party, review, 1st session, 86th Congress-----	15998
Renal diseases, see Kidneys.		Rescue operations, see Relief work-----	
Rendsburg, Germany, German Cartographic Society, 8th convention-----	3707	Rescue work.	
Renegotiation, see Government contracts.		Rescue work :	
Renegotiation Board :		B-58 crew rescue and fire fighting handbook-----	5591, 7099
annual report, 1958-----	2119	national search and rescue manual-----	17305
appropriations, 1960, hearings-----	5914	skills and techniques, technical manual-----	13878
regulations-----			
amendment-----	17067		
compilation-----	15177		
Reno, Nev., Reno-Sparks-Verdi Interstate highway location, report-----	7379		
Renovation of Executive Mansion Commission, records, preliminary inventory-----	16933		

# INDEX, 1959

Entry	Entry
Rescue work—Continued	Research and Industrial Administration, Agricultural, <i>see</i> Agricultural Research and Industrial Administration.
swim suits, development and evaluation of waterproof 2-way stretch laminated fabrics.....	Research bulletins, papers, etc., <i>see</i> names of issuing agencies— <i>also</i> subjects.
4100	Research fellows of National Cancer Institute..... 10509
Research:	Research institutions, <i>see</i> Colleges and universities.
AEC research reports..... 171-194,	Research laboratories:
1374-99, 3152-70, 4306-34,	fish behavior studies..... 4864
5635-53, 7136-56, 8392-8417,	manufacturers, small, quality control and technical development, setting up..... 13585
9657-69, 11717-756, 13791-812,	mobile, fishery technological research..... 422
15394-436, 17247-272.	<i>see also</i> name of laboratories or places where located.
price list..... 15442	Research notes:
and development—	California Forest and Range Experiment Station..... 473-474,
Army contractors guide..... 15375	1672-73, 3552, 10164
costs and manpower statistics..... 17790	Geophysics Research Directorate..... 1354,
methodology..... 17790	3115, 4262-63, 5597-98, 7106-8,
impact on economy, conference proceedings..... 1118	9633, 11671-674.
national plan for civil defense and defense mobilization..... 13877	Intermountain Forest and Range Experiment Station..... 6259,
performance in American industry, funds, 1957, preliminary report..... 15120	7821-23, 12732-737, 16439
books, unlocated, L.C. list..... 909	Northeastern Forest Experiment Station..... 3575, 7832, 17467-473
career opportunities, military intelligence, examination announcement..... 3215, 8480	Pacific Northwest Forest and Range Experiment Station..... 492,
Czechoslovak institutes, activities, etc..... 731-732	1690-91, 6265-66, 9105-6,
external research list..... 1180-92, 13598-606	10177-178, 17474-475.
fish biologists, aided by Fisheries Instrumentation Laboratory..... 10127	Pacific Southwest Forest and Range Experiment Station..... 16441-445
fishery products..... 10128	Rocky Mountain Forest and Range Experiment Station..... 1696,
gerontology, grants and projects of National Institutes of Health..... 10508	3581, 12749-52
Government research reports, monthly listing..... 2343, 10872	Southeastern Forest Experiment Station..... 496,
index..... 4347	10180-182, 12753-754, 17479
grants and awards of Public Health Service, general information and policies, policy information statement..... 6800	Research papers:
life sciences, Federal grants and contracts..... 5336	Intermountain Forest and Range Experiment Station..... 12738, 14722
naval, reviews..... 11407	Pacific Northwest Forest and Range Experiment Station..... 493,
Public Health Service advisory panels, lists of members..... 8102	3577-79, 7834, 16439
research abstracts, NACA..... 2843	Research reactors, <i>see</i> Reactors (atomic).
research reviews, Naval Research Office..... 2868	Research relations between engineering educational institutions and industrial organizations..... 9491
SBA assistance for small business..... 10578	Research reports, Snow, Ice, and Permafrost Research Establishment..... 14603, 16267-268, 17380-381
services in trade union in Western Europe, seminar..... 16662	Research scientists:
technical, activities of cooperative associations..... 6074	examination announcements..... 255, 264
<i>see also</i> Military research—Scientific research— <i>also</i> names of departments, etc., doing research— <i>also</i> subjects.	supergrade positions in various Federal agencies, hearings..... 15957
Research achievement sheet R.A.S. series..... 3043, 17189	Research technical memorandum, Army Transportation Research and Engineering Command..... 9532, 13649
Research analyst:	Reserpine, new drug, therapeutic use, USSR study..... 12932
operations, examination announcement..... 5751	Reservations, <i>see</i> Military reservations.
social security, examination announcement..... 5724	Reserve banks, etc., <i>see</i> headings beginning Federal reserve.
Research and Development Bureau, Federal Aviation Agency:	Reserve components of Armed Forces:
operations, organization, etc..... 7697	Air Force pamphlet..... 4251
releases..... 2910, 11454	expand definition in act of 1952—
technical development reports..... 7698-7700, 9479-80	hearing..... 16193
Research and Development Laboratories Engineer, <i>see</i> Army Engineer Research and Development Laboratories.	law..... 15689
Research and development opportunities for industry in space (address)..... 5306	reports..... 14207, 14539
Research and development report:	members, make eligible for burial in national cemeteries—
Patent Office..... 9451	law..... 14093
Supplies and Accounts Bureau..... 4100, 13635	reports..... 9982, 14310
Research and development series, Army..... 11715	

# JANUARY-DECEMBER

	Entry		Entry
<b>Reserve components of Armed Forces—Continued</b>		<b>Resins—Continued</b>	
officers—		ion exchange, extraction of gold from cyanide solutions, USSR study—	17587
active duty agreements—		<i>see also</i> Adhesives—Electric resistance.	
hearings—	4043-44	Resistance, <i>see</i> Electric resistance.	
reports—	4621, 5855	Resistance welding, <i>see</i> Welding.	
medical, commissioning and residency, consideration, program—	8922	Resistors, <i>see</i> Electric resistors.	
promotion, precedence, etc., amend law, reports—	12179, 12201	Resolution of 6th congress of central executive committee of Vietnam Labor-Youth League—	12832
personnel act, technical changes, hearings—	12275	<b>Resolutions:</b>	
pay and retirement credit for service as aviation cadet, etc.—		history—	
hearings—	4637, 14549	85th Cong. 2d sess—	2443
law—	14052	86th Cong. 1st sess—	10974
reports—	4588, 4606, 14504	<i>see also</i> House bills—Law—Senate bills.	
Ready Reserve, critical occupations for screening, list, Air Force pamphlet—	141, 4251	<b>Resonance:</b>	
special enlistment programs, extend—		neutron, in U-238, thesis—	15399
hearings—	4636, 12524	slow neutrons resonance in Ag, Ta, and Cd—	17249
law—	11983	tables of proton energy, etc.—	8153
reports—	4593, 5841, 10009	<i>see also</i> Magnetic resonance.	
<i>see also</i> Marine Corps Reserve—Pay allowances, etc.		Resources, <i>see</i> Natural resources.	
Reserve marine (periodical)—	2780	Respiratory equipment, <i>see</i> Breathing apparatus.	
Reserve Officers Training Corps, Army:		Respiratory organs, infections, transmitted from air, use of aerosols as means of disinfecting, studies—	5130
manual—	15391	Respiratory system, malignant neoplasms, death rates by age, color and sex, 1949-51—	10519
members, make eligible for burial in national cemeteries—		Rest-rotation grazing, management system for bunchgrass ranges—	6238
law—	14093	Resta, Francis E.:	
reports—	9982, 14310	relief—	
<b>Reservoirs:</b>		hearings—	12280
Army-Interior joint land acquisition policy, report—	7380	report—	12064
construction and water conservation developments in China in 1958—	9160	<b>Restaurants, lunch rooms, etc.:</b>	
dam, fish conservation research report—	14487	Army installations, food-service facilities, engineering and design manual—	12605, 16264
outlet works for Abiquiu Dam, Rio Chama, N. Mex., hydraulic model investigation—	12620	buying practices and food use of employee food services in manufacturing plants—	8320
Pacific Northwest, water storage—	2658, 11197	employee services in manufacturing plants, management appraisals, nature and extent, vending machines—	8319
regulation, engineering and design manual—	12604	fish and shellfish consumption in public eating places—	10138
sanitary protection from contamination by radioactive substances, USSR—	5102	school lunchroom personnel, work injuries (address)—	16670
spillway and outlet works, hydraulic model investigation—	8972	<b>Restraints on alienation:</b>	
USSR, water, effect of radioactive strontium on self-purification process, data—	827	laws of D.C., exempt pension and other employee trusts—	
water storage development, United States—	3601	law—	15612
<i>see also</i> names of reservoirs.		reports—	14211, 14460
Residences, <i>see</i> Homes—Houses.		<b>Retail stores, <i>see</i> Stores.</b>	
Residential construction, <i>see</i> Building.		<b>Retail trade:</b>	
<b>Resins:</b>		advance retail sales report—	2367, 10897
acids, collectors for iron oxides—	16722	careers for women—	17895
alkyd and polyesters, rapid identification of dicarboxylic acids used in manufacturing—	5363	employees, fair labor standards act coverage, hearings—	12564
bisphenol-type epoxy, new spot test useful in identification—	4001	food stores, maximum profit based upon optimum inventory turnover (talk)—	7029
cured and uncured, method for determining epoxy content—	6876	report, monthly—	2364, 10895
dipping on holding strength of metal fasteners in woven roving laminate, study—	13576	retailing, bibliography—	15188
epoxy—		<i>see also</i> Shopping centers—Stores—	
and polyester-type, cementation of bituminous coal-mine roof strata—	3875	<i>also</i> names of commodities and industries.	
for use on civil works projects, summary of data—	16274	<b>Retina:</b>	
synthesis from bis-phenols, literature survey—	13536	fovea, area-intensity relationship at threshold for stimulus durations—	10419
		sensitivity variation affecting photometric measurements—	10538
		Retired officers, etc., <i>see</i> Pay, allowances, etc.	
		Retired reserve, <i>see</i> Reserve components of Armed Forces.	

# INDEX, 1959

	Entry		Entry
Retirement:		Revenue—Continued	
Air Force guide for retirement	17220	D.C. act, operation, etc., investi-	
armed services regular officers,		gation—	
amend U.S. Code, hearing	12527	hearings	307
civil service system, Federal em-		report	1540
ployee facts	7241	postal, credit certain amounts to	
deferred compensation plans for		Post Office Department—	
small business	17073	hearing	7477
District of Columbia teachers,		law	14024
credit educational leave, re-		reports	7383, 12491
port	16139	see also Internal revenue—also	
employee-retirement systems of		names of articles, etc., from	
State and local governments,		which revenue is derived.	
census of governments, 1957	5676	Revenue officer, career for college	
announcement and order form	5674	graduates	4956
enriching the added years of older		Reversers, see Thrust reversers.	
population	9131	Revised statutes of U.S., see Codes	
health benefits program for retired		of law.	
Federal employees, hearing	16220	Revival of Communist International	
Marine Reserve plan, basic infor-		and its significance for United	
mation	16679	States, study	7641
optional, Panama Canal ship pilots,		Revolution, 1775-83	
report	16222	Lexington-Concord Battle Road,	
police and firemen retirement and		report	5809
disability act of D.C., make ap-		print additional copies, report	7424
plicable to former members and		Revolution is task of masses, Viet-	
their widows, widowers, and		nam	4908
children—		Revolutions, Tibetan revolt	17542
hearings	8727	Revolvers, use and care	17026
reports	8637, 16164	Revolving funds:	
Reserve components of Armed		fisheries loan fund authorization,	
Forces credit for service as		increase, hearings	317
aviation cadet, etc.—		Indians, use for Klamath Indians—	
hearings	4637, 14549	law	9772
law	14052	reports	6017, 8643
reports	4588, 4606, 14504	Small Business Administration, in-	
self-employed individuals retire-		crease—	
ment act of 1959—		law	15731
hearings	17352	reports	15797, 16100
report	4574	Rewards (prizes, etc.):	
United States commissioners, cred-		Armed Forces decorations and	
iting service—		awards (poster)	12586
law	15671	Navy and Marine Corps awards	
reports	12185, 14525	manual	6852
WAAC credit for service—		President's safety award presenta-	
hearing	5920	tion to Commerce Dept. em-	
law	12020	ployees for distinguished	
reports	8657, 12469	Federal Civilian service (re-	
see also Armed Forces—Army—		marks)	9749
Civil service pensions—Foreign		safety awards, National Lime As-	
Service—Pensions—Railroad		sociation	16693
employees—Social security.		safety awards to sand and gravel	
Retirement and disability fund, see		plants	14997
Civil service pensions.		USSR awards in competition in de-	
Retirement and Insurance Bureau:		velopment of new techniques	5035
create—		Keynolds number:	
hearings	14348	magnetic, use of series expansion	
report	12410	for, solving problems	13445
views	12410	phenomena in turbojet compressor	15054
Retorts, gas flow for processing of oil		RFC, see Reconstruction Finance	
shale, pilot plant operation	16728	Corporation.	
Retallata, John T., nomination, hear-		Rhea County, Tenn., forest inventory	
ing	8874	statistics	17138
Return of Yankee trader (address)	271	Rheumatic fever, death rates by age,	
Reuben, Salim M. E., relief	8800	color, and sex, U.S., 1949-51	8115
Reuter, Ernst:		Rheumatic heart disease, see Heart	
champion of liberty, commemora-		disease.	
tive stamp (poster)	15148	Rheumatism:	
stamp ceremony honoring (ad-		and diseases of joints and means	
dress)	17012	of combatting them, USSR	
Revenue:		committee, plenary session	
carload waybill statistics, 1957—		report	16626
distribution of freight traffic and		resorption of sodium-24 from in-	
revenue averages by commodity		tradermal skin depot, USSR	
classes	4960	studies	7941
mileage block progressions by		Rhizocephala, of family Pelto-	
commodity groups and classes	12789	tridae parasitic on West In-	
territorial distribution, traffic		dian specie of Galatheidæ	1108
and revenue by commodity		Rhode Island:	
classes	1733	census of governments, 1957, State	
carload waybill statistics, 1958, ter-		bulletin	11799
ritorial distribution, traffic and		landings, fishery products	2627, 11165
revenue by commodity classes	12794	annual summary, 1958	9035
		mineral industry, minerals year-	
		book chapter	15007



# JANUARY-DECEMBER

	Entry		Entry
<b>Rhode Island—Continued</b>		<b>Rio Grande and Valley :</b>	
South Kingstown and Westerly, beach erosion control study engineer report—		bridge construction—	
departmental edition.....	389	near El Paso, Tex.—	
document edition.....	304	law.....	13906
women, labor laws summary.....	2179	reports.....	9850, 12435
Rhodes, May B. S., relief. 4502, 15609,	16039	near Los Indios, Tex.—	
Rhodesia and Nyasaland, Federation of, see Federation of Rhodesia and Nyasaland.		hearings.....	16198
Rhone American Cemetery and Memorial, general information.....	3130	law.....	15703
Rhubarb, market diseases.....	8306	minority report.....	16106
<b>Rice :</b>		reports.....	14308, 16166
acreage allotment, exchange within county for cotton allotment, hearings.....	5905, 6042, 12272	near Rio Grande City, Tex.—	
China crop, socialization.....	6397	hearings.....	16198
diseases.....	1302	law.....	15703
distribution patterns in United States and territories.....	7009	minority views.....	16106
export situation, movement through public law 480, hearings.....	7437	reports.....	15872, 16166
foreign agriculture circulars. 2643, 11182		drainage basins, snow courses and soil moisture stations, list.....	5411
futures trading and open contracts.....	2430, 10963	snow surveys and water supply forecasts of drainage basin.....	11485
market news.....	2260, 10712	<b>Rio Grande City, Tex. :</b>	
market news supplement, rough rice receipts.....	2261	bridge across Rio Grande, construction—	
market summary.....	1255, 17166	hearings.....	16198
marketing quotas when total supply exceeds normal supply, report.....	15851	law.....	15708
outlook for 1959 (talk).....	1272	minority views.....	16166
rough and milled stocks.....	1275, 5501, 9585	reports.....	15872, 16166
situation and outlook.....	3028	<b>Rio Grande project :</b>	
southern-grown, processing and utilization research, publications, list.....	15297	lower, La Feria division, irrigation and drainage works, rehabilitation—	
stocks and movements, California mills.....	2262, 10713	hearing.....	16207
world trade outlook (remarks).....	1644	law.....	15721
Rice mills, southern, costs of operating.....	8323	report.....	15812
Richland County, Wis., soil survey report.....	13591	<b>Riots, civil disturbances, Air Force manual.....</b>	1343
Richmond, Ind., population, special census.....	11806	<b>Rising economy (address).....</b>	15453
Richmond National Battlefield Park, general information.....	2073	<b>Rivers, L. Mendel, report on inspection of military bases in Europe.....</b>	15940
<b>Rickettsial diseases :</b>		<b>Rivers :</b>	
death rates by age, color, and sex 1949-51.....	10514	basin projects, economic analysis, proposed practices.....	9138
USSR studies.....	6393	daily stages, 1956.....	1231
Rickover, Hyman G. :		flood control, etc., projects, appropriations, hearings.....	14578
report on Russia, hearings.....	15938	<b>Kwangtung Province, China, shifting courses.....</b>	13121
special gold medal, presentation, hearings.....	12030	public works for navigation, etc., hearings.....	12308, 14578
Riddle Airlines, Inc., accident.....	15503	reports.....	8712, 12174
Ride, Colo., oil-shale mine, design factors.....	944	veto (S. 497), analysis.....	7481
Rifles, see Shooting.		radon distribution in mountain streams, physical behavior and geologic control.....	3597
Right to buy, 1959.....	12569	river basin surveys papers—	
Rights (civil), see Civil rights.		departmental edition.....	4279
Rights of persons, see Civil rights.		document edition.....	4428
Rights of way, see Roads and highways.		run-off losses, European territory of USSR.....	1885
Rights of women, see Women.		snowmelt and streamflow at Fraser Experimental Forest, 1946-53.....	1159
Rigidity (psychology) :		unexplored, problem of preparing hydrological forecasts, USSR study.....	12918
measures, electronic trouble-shooting ability, non-intellectual, correlation study.....	3127	use for shipping in USSR, ways and means of developing.....	9239
Ringol, Mathilde, relief.....	4536, 5977, 7286	western, navigation, rules of road, see also names of rivers or places where located.	9745
Rings, Saturn's, observations bearing upon transmission properties.....	1171	<b>Riverton project, ground-water resources.....</b>	14758
Rio Chama, outlet works for Abiquiu Dam, hydraulic model investigation.....	12620	<b>Rizer, Father Kenneth M., relief.....</b>	14197, 14430, 15598
		<b>Road machinery :</b>	
		and construction in USSR.....	3681
		building, parts, Federal supply schedule.....	6170
		building, tasks in coming years, USSR.....	12914
		Federal supply schedule.....	14051
		new machine production prospects, USSR.....	14845

# INDEX, 1959

	Entry		Entry
<b>Roads and highways:</b>		<b>Roasting (minerals):</b>	
aerial surveys and mapping by photogrammetric methods, reference guide outline.....	5390	combined with flotation process, recovery of mercury from cinabar-athabite ore.....	3872
approach roads, Greenland 1955 program.....	12621	Robert A. Taft Memorial dedication ceremony.....	8542
code of Federal regulations.....	3469	Robey, Elsie, relief.....	14198
cooperation, Federal and county (address).....	17833	Robins Air Force Base, Ga.: land, convey portion to Warner Robins, Ga.—	
designation of primary highway system, hearing.....	16225	law.....	13999
engineering economy, concepts and applications (paper).....	17060	reports.....	8653, 12450
Federal aid for construction in Ohio (address).....	8202	Robinson, Forrest E., relief.....	4510, 5979, 7300
Federal aid highway act of 1959—		Robinson-Patman act. <i>see</i> Prices.	
law.....	15707	Rochester, Ind., fish cultural station, exchange of lands, hearings.....	317
reports.....	15876, 16127-128	Rochester, N.Y., electric facilities of area, map.....	16335
views.....	15876, 16127-128	Rochester Fish-Cultural Station, exchange of lands, hearings.....	317
Federal aid programs—		Rochester Iron & Metal Co., relief.....	7537
increase period for commencing construction of rights-of-way—		Rock, Felga A., relief.....	7515, 8601, 11926
law.....	8520	Rock. <i>see</i> Rocks.	
reports.....	7586	Rock bursts, structures undergoing elastic and permanent deformation, model laws for scaling of response to blast loading.....	7143
progress report.....	4623, 4455	Rock phosphates:	
safety features (address).....	5391	marketable production and sales increased during 1958.....	935
freeway lighting, experiments, observations, research (remarks).....	5388	minerals yearbook chapter.....	15031
highway cost allocation study, 3d progress report.....	5812	Mines Bureau research program.....	13333
highway problems (address).....	15552	production, etc., 1958.....	2008, 13333
highway research, vital to our future (address).....	4034	Rocket launchers, five-stage solid-fuel sounding-rocket system performance data.....	6781
highway transport industry, problems (address).....	15551	Rocket missiles, <i>see</i> Missiles.	
highway trust fund—		Rockets:	
amend act, hearings.....	14361, 14557	aerodynamic-heating data obtained from free flight tests between Mach numbers 1 and 5, evaluation of theory, etc.....	10478
amend act, report.....	15886	aerodynamic heating of wing, data obtained from free flight tests to Mach number 3.64.....	16836
and Federal aid financing, proposed provisions.....	15992	airplane-like configurations at transonic speeds, directional-stability data.....	17726
financial conditions and operations, report.....	4467	altitude stage, comparison of hydrazine with primary propellants as turbine drive fluid.....	17742
highways and motor buses (address).....	15174	automatic computation of equilibrium compositions and theoretical rocket propellants.....	16918
interstate highway program self-supporting basis, message from the President.....	15771	boosters, fuselage-mounted, missile configuration, investigation.....	966
interstate system—		engine design, propellant vaporization as criterion.....	3946
cars, cows, and highway problems (address).....	9473	engines—	
cost reimbursement to States—		50 pound-thrust, effect of variations in combustion chamber configuration on ignition delay.....	1010
hearings.....	12307	high performance 250-pound-thrust utilizing coaxial flow injection of JP-4 fuel and liquid oxygen.....	17753
Secretary of Commerce proposals.....	7485	JP-4 fuel and liquid-oxygen, experimental altitude performance.....	9382
estimate of construction costs, extend, hearings.....	9921	liquid-propellant, having continuous rocket-type igniter, residual fuel expulsion.....	5277
logging, sediment control method.....	16435	noise surveys for range of nozzle exit pressures.....	15076
National Capital region, metropolitan, statistical program, establish, staff study.....	1572	optimum climbing trajectories, approximate solutions.....	16920
national highway picture past and future (address).....	1156	fluorine disposal by reaction with charcoal.....	5273
national program—		general procurement information.....	6085
accomplishments (addresses).....	4030-31	ground-launched, equipped with cruciform and monoplane fins, comparative dispersion data.....	6734
progress in Mountain States (address).....	9475		
progress report (address).....	8203		
our responsibility in this highway partnership (address).....	1157		
public roads (periodical).....	2900, 11443		
publications, price list.....	13554		
Reno-Sparks-Verdi Interstate highway location.....	7379		
safety promotion, Federal role, Commerce Dept. report.....	5813		
statistics, 1957.....	9474		
traffic speed trends.....	6918		
USSR, mechanization of building operations.....	14847		
<i>see also</i> names of roads or highways.			

# JANUARY-DECEMBER

Rockets—Continued		Entry	Rocks—Continued		Entry
hydrazine-nitrogen tetroxide and hydrazine-chlorine trifluoride compared as propellant combinations		17754	explosion-generated strain pulses, spherical propagation		13366
in war and peace, bibliography, Army Dept. pamphlet		17243	geological problems of petrology		6425
ion engine design, thesis		13750	Glacier National Park, origin and history		6290
investigation, of shortwave solar radiation, literature translations		7891	in or near uranium mineralized zones, natural-state cores, dielectric constant and electrical resistance		7847
measurements of electron concentration in ionosphere with aid of ultrashort wave dispersion interferometer, USSR study		10259	magnetic properties, method for measuring with astatic magnetometer, USSR studies		5019
Mechta or Lunik, Soviet moon rocket launching, report		15863	magnetized, use of measurements of magnetic field in prospecting holes to determine intensity, USSR study		6584
NASA/USAF space probes, 1958, summary		13436	metamorphic—		
National space program, accomplishments and plans (address)		17720	Glacier Bay, Alaska area, petrology and petrogenesis		4926
Nike-Cajun (CAN) system, characteristics and performance, evaluate use as meteorological sounding rocket		15070	Paraguay		7855
nuclear, hydrogen-propelled, effect of turbopump design on gross-weight characteristics		10495	middle Tertiary, stratigraphy in west-central Florida		17487
ozone addition, effect on combustion of hydrogen-liquid-oxygen propellant in small rockets		10500	Mona Island, Puerto Rico, petrography of phosphorites		12769
performance and heating problems, photography from Viking 12 at altitudes up to 143.5 miles		13506	petrographic composition of Hershaw coal from Boone County, W. Va.		6866
photon, Bulgarian scientific research		3717	petrographic examination of foreign oil shales		13376
powered research vehicles, aerodynamic heating at hypersonic speeds		17728	petrographical investigation of uranium-bearing shales		4319
project vanguard, minitrack report		1130, 2084, 2088	perennially frozen, distribution in western Siberia		10266
propellants—			pre-Atoka, of northern Arkansas		14755
address		6079	sedimentary, water sensitivity of clay and core samples, evaluation		941
effects of design parameters on regenerative-cooling capabilities, analysis		16896	strain energy in explosion-generated strain pulses		17710
liquid hydrogen with liquid oxygen		13435	Triassic, geology of uranium deposits, Colorado Plateau region		12763
vaporization for engine design		16895	see also Igneous rocks.		
toxicity and other hazards, literature search		11738	Rocky Mountain Arsenal:		
propelled models, aspect-ratio-5 unswept wings on long body for Mach number range of 1.7 to 2.4, stability		13426	quiet title and possession of adjacent property—		
reactor-heated motors, hydrogen and water as working gases		15086	law		15683
reports by USSR at 5th meeting of CSAGI		551	reports		15822, 16104
research report, photography from Viking 12		15127	Rocky Mountain Forest and Range Experiment Station:		
Soviet sputnik, orbital data, results of observations, literature translations		7895	research notes		1096, 3581, 12749-52
studies of upper atmosphere		13767	station papers		1697, 3582, 7835-36, 16447-448, 17478
turbine-inlet temperature significance in high-energy turbodrive applications		5260	Rocky Mountain National Park, general information		6835
turbodrive applications, method for determining turbine design characteristics		2041	Rocky Mountain States:		
turbopump-fed liquid-propellant, analysis of flow-system starting dynamics		8085	central, forest insect conditions, 1958		7836
			Intermountain and northern, forest insect conditions, 1958		7820
			northern—		
			home fruit gardens		11627
			thunderstorm analysis		14722
			watershed management problems		12738
			southern, peak rates of runoff in area		17061
			Rocky Mountains, northern, overwintering spruce budworm larval populations, sampling studies		7821
			Rodenticides:		
			amend act to include nematocides, etc.—		
			hearing		12270
			law		14002
			reports		9854, 12438
			anticoagulant, control of rats and mice		7761
			Rodents, management studies, Black Mesa research program in Southwestern Colorado, report		17478
			see also Rats.		
			Rodman Laboratory, see General Thomas J. Rodman Laboratory.		
Rocks:					
clay in petroleum-reservoir rocks, effect on permeability, Tejon-Grapevine, area, Kern County, Calif		5203			
Colorado Plateau region		16457			
Delarof and westernmost Andreanof Islands		7844			
diamond crystal enclosed in kimberlite rocks, Udachnaya pipe, Yakut, ASSR		1801			

# INDEX, 1959

Entry	Entry
Rodope Mountains, Bulgaria, industrial development in mining basin.....	858
Rodopski mining basin, Bulgaria.....	858
Rodriguez Jimenez, Alvaro, relief.....	14381
Roentgen irradiation, <i>see</i> X-rays.	
Roentgen kymography of heart in acute experimental radiation sickness.....	825
Roentgenological institutions, <i>see</i> X-ray laboratories.	
Roentgenologists, occupational diseases, USSR study.....	12939
Roentgenology, 7th all-Union congress, summary of proceedings.....	10377
Roentgenotherapy, supervoltage radiation therapy, symposium.....	11760
Roentgens, rads, and riddles, symposium on supervoltage radiation therapy held at Medical Division, Oak Ridge Institute of Nuclear Studies, July 15-18, 1956.....	11760
Rogers, William P., nomination, hearing.....	3393
Roll (aircraft): allersons and spoiler on modified-delta wing effectiveness, effects of tail damping and wingtail interference.....	16845
analog computer study of inertia coupling in maneuvers of airplane configuration using variable-incidence wing as longitudinal control.....	16861
control by use of horizontal tail-rolling moments caused by wingtail interference for missiles at supersonic speeds, estimating.....	952
steady, of model at high subsonic speeds, wind tunnel investigation to determine aerodynamic characteristics.....	3910
zero-lift effectiveness on 80° delta-wing missile, free flight investigation at Mach numbers between 0.5 and 1.7.....	10482
Rolling Meadows, Ill., population, special census.....	17281
Rolling mills, automation, in non-ferrous metallurgy.....	651
Rome Air Development Center, technical notes.....	3118-19, 9639
Rongelap Atoll: occurrence of antimony-125, europium-155, iron-55 and other radionuclides in soil.....	4333
radiobiological studies of fish.....	3169
Roofed bunker silo with optional sheds, type D.....	11645
Roofing: asphalt and tar, facts for industry.....	2371, 10902
asphalt industry, administered prices— report.....	7630
views.....	7630
granule production, etc., 1958.....	16715
Roosevelt, Franklin D.: memorial in D.C., reserving site, etc.— law.....	14067
reports.....	5848, 14509
Roosevelt, Franklin D., Memorial Commission, <i>see</i> Franklin Delano Roosevelt Memorial Commission.	
Roosevelt, Theodore, birth, 100th anniversary observance, final report.....	14364
Roosevelt, Theodore, Centennial Commission, <i>see</i> Theodore Roosevelt Centennial Commission.	
Roosevelt Dam, Reservoir, and Power Plant: change name— law.....	14097
reports.....	12506, 14304
Roosevelt Library, <i>see</i> Franklin D. Roosevelt Library.	
Root rot and related literature, annotated bibliography.....	1287, 8297
Rope, uses, etc., on farm.....	5533
<i>see also</i> Wire rope.	
Rosamond, Ill., railroad accident.....	12799
Rose hips, ceglantine, vitamin P preparation, effect on endurance of animals in rarified atmosphere, USSR study.....	7933
Rosefish, age and growth in Gulf of Maine.....	16379
Roses: bare-root bushes, commercial packing and storing.....	5546
cut, production and sales, 1957 and 1958.....	8284
nursery products, production and sales, 1957 and 1958.....	8286
Ross Basin-lead-zinc deposits in area.....	16732
Roszkowski, Franceszek, relief.....	12367
Rot, <i>see</i> name of rot.	
Rotating model oil reservoir for simulating gas-cycling operations.....	16719
Rotation, natural convection inside flat rotating container, errata.....	5257
Rotation of crops, multiple cropping index in Taiwan.....	609
ROTC, <i>see</i> Reserve Officers Training Corps, Army.	
Rotenone, streamside toxicity trials in Indian and Abrams Creeks, removal of undesirable fish.....	12691
Rothman, Stuart, nomination, hearing.....	8906
Rotor flow in lee of mountains.....	5597
Rotor planes, hovering in and out of ground effect, application of linearized vortex theory, evaluation.....	16886
<i>see also</i> Helicopters.	
Rotorcraft: airworthiness— normal category— civil aeronautics manual.....	16285
civil aeronautics manual, supplement.....	4795
civil air regulations amendment.....	16298
transport categories, civil air regulations, amendments.....	16299
Rotors: axial-flow-compressor, design, performance, and stall characteristics investigation.....	2031
high-solidity high-pressure-ratio transonic, performance, theory and experiment.....	1002
hubs, helicopter, parasite-drag measurements.....	3930
leading-edge sweepback, effect on performance of transonic turbine.....	16784
lifting, induced velocities in vicinity, charts.....	8083
transonic axial flow, with double-circular-arc airfoil blade, sections, investigations.....	2031, 2035, 2037
transonic compressor, experimental investigation— blade-element and over-all performances, etc.....	5240
blade-element performance.....	5238
design, over-all performance, etc.....	5237



# JANUARY-DECEMBER

	Entry
Rough-water ditching investigation of model of jet transport with landing gear extended and with various ditching aids.....	16012
Roughage, emergency programs, State participation, report.....	12190
Royal Canadian Air Force, radio facility charts..... 2310-12,	10761
Royal Canadian Navy, radio facility charts..... 2310-12,	10761
Royal Intercean Lines, see Koninklijke Java-China-Paketaart Lynen N.V.	
Royalties:	
copyright, exclude from personal holding company tax.....	15791
payment to composers of music rendered on coin-operated machines, hearings.....	14345
payments, double taxation, convention with United Kingdom, protocol, report.....	12346
Rozanski, Alberta S., relief.....	4506
Rozman, Rudolph, relief.....	12112,
	15595, 16027
RPL, see General Thomas J. Rodman Laboratory.	
RSFSR, see Russian Soviet Federal Socialist Republic.	
RTU television reporting outfit, USSR.....	9262
Ruanda-Urundi:	
economy, basic data.....	1650
exports and imports, licensing and exchange controls.....	12717
pharmaceutical regulations.....	10153
Rubber:	
and rubber products, prices and price indexes, 1957.....	895
anticyrystallizing natural, evaluation.....	4002
industry reports.....	2334, 10807
products—	
labor turnover rates per 100 employees.....	7999
manufacturing plants, location by county and employment size.....	7220
products and processes, Government-owned inventions available for license.....	11871
raw and vulcanized rubber (USSR periodical), abstracts.....	10860
supply and distribution for U.S., facts for industry.....	2371, 10902
synthetic—	
Attorney General's report on competition in industry.....	16638
technological development under Government direction, case study.....	1570
see also names of articles manufactured from rubber.	
Rubber stamps, Federal supply schedule.....	416
Rubidium isotopes, 37 Rb-82, beta and gamma radiations.....	3157
Ruby Mountains, airborne radioactivity survey.....	15415
Rudzenko, Sergiusz, relief.....	14404, 15600
Rugs, Wilton, Brussels, etc., trade agreement escape clause investigation.....	4104
Rules, see House of Representatives—also names of courts, commissions, etc., issuing rules—also subjects.	
Rules and Administration Committee, Senate:	
calendar.....	2478, 11011

Rules and Administration Committee, Senate—Continued	Entry
hearings.....	12569
investigations and studies, privileges and elections, expenses, report.....	8355
reports.....	3355-77, 4700, 4702-3, 4706-11, 4716-18, 4721, 5999, 7545, 7567-69, 8813, 8842, 10003, 12422, 12474, 12507-511A, 14521, 14539, 16057-64, 16087-91, 16176, 16178.
views.....	12474
Rules Committee, House:	
reports.....	3291-3301, 3314-15, 4546-47, 4606-7, 4612-13, 5831, 5838-42, 5855-59, 5872, 5887, 5895-98, 7362-63, 7376, 7402-3, 7429, 8647, 8649, 8664, 8668-69, 8697-98, 8700, 8707, 9833, 9835-36, 9844, 9860-61, 12136-137, 12173-175, 12199, 12200-202, 12226-228, 14209, 14241-242, 1432, 14289-290, 14313, 15802-804, 15834, 15886-887, 15890-891, 15930.
views.....	5839, 5859
Rules of road:	
Great Lakes.....	9743
international, inland.....	9744
western rivers.....	9745
Rumania:	
agricultural economies, notes.....	16396
climate map, local, sketch.....	5021
development of natural gas exploitation.....	1936
economic report.....	665
medical geography considerations.....	1875
oil industry and economic problems of its development under conditions of people's democratic system, selections, USSR book.....	17606
People's Republic—	
foreign economic relations.....	12850
organization of public health.....	5043
petroleum industry, evolution since 1st World War.....	1913
political and sociological translations.....	3656, 4997
provincial press summary.....	568, 570-572, 584, 597, 3678, 5004, 6352, 6367, 6372, 6380, 6383, 6390, 10212, 10224, 12809, 12812, 12815, 12820, 12825, 12841-842, 12854-855, 12864, 12875, 12887, 14808, 14821, 14824, 14834, 14837, 16528, 17517, 17538, 17549.
research activity of Institute for Hygiene, Bucharest, RPR in 1956.....	860
selected economic translations.....	725, 727, 754, 1837, 5063, 5066, 5095, 6459, 6504-5, 6568, 6574, 10283, 10300, 12831, 13003, 13015, 13048, 13110, 13128, 13211, 14895-896, 14901, 14907, 16570, 16583, 17591.
selected sociological translations.....	6351, 6375, 17560
United States exchange programs.....	16203
use of ionizing rays in preservation of food.....	635
Rumanian Telephone Company, lack of spare parts, laying of underground cable network, bribery for telephone installation.....	6410
Rundlett, Olin F., relief.....	4479
Run-off, see Runoff.	
Runoff:	
peak rates in southern Rocky Mountains area.....	17061

# INDEX, 1959

	Entry		Entry
<b>Runoff—Continued</b>		<b>Rural Electrification Administration—Continued</b>	
snow, forecasts—		electric cooperatives, accomplish-	
Western U.S., 1958.....	6938	ments, etc. (address).....	13719
Western U.S., 1959.....	8227	energy purchased by REA systems,	
snow investigations at Fraser Ex-		1958, report.....	10575
perimental Forest, 1946-53....	1159	loan functions, expressing sense of	
<b>Runways (aeronautics):</b>		Senate, hearings.....	6045
fog dissipation, thermal techniques	1351	materials acceptable on REA sys-	
paving materials, Air Force use—		tems.....	6925, 11456, 15179
hearings.....	1541	supplement.....	10574
report.....	5917	programs, plan for future growth	
taxing problems associated with		(address).....	17836
runway roughness, study.....	6762	REA bulletins.....	5399, 6925, 9481-
tests of threshold lighting pat-		82, 10575, 13570, 15179	
terns.....	4804	reestablish as independent agency,	
<b>Rural communities:</b>		hearings.....	6044
action program to promote educa-		reorganization, amend plan 2 of	
tion beyond high school.....	17068	1939 and 1953—	
agricultural and agency workers to		hearing.....	5926
help in making economic ad-		minority report.....	5874
justments (address).....	11619	reports.....	5874, 6011, 7362
aspects of change, analysis.....	15306	veto.....	7499
credit principles, guide.....	5396	views.....	5874, 6011
credit union, place to save and		report, 1958.....	4046
borrow.....	13569	restore certain functions—	
depressed areas, unemployment al-		hearing.....	5926
leviation—		minority report.....	5874
hearings.....	4737, 5922, 6049	reports.....	6011, 7362
reports.....	5992, 7426	veto.....	7499
views.....	5992, 7426	views.....	5874, 6011
education, publications, list.....	8948	review of programs, etc., hearings—	
labor recruitment in depressed		rural telephone, central office equip-	
area.....	886	ment—	
low-income areas—		contract, including installation....	5397
guidelines for leaders.....	13714	specifications, detailed require-	
manpower adjustments, socio-		ments.....	5398
economic aspects (paper).....	15298	statistical bulletins monthly.....	2912-13,
problems, etc., commission to study,		11457-458	
hearings.....	12269	quarterly supplements.....	2914-15,
public school systems in 101 most		11459-460	
rural counties.....	362	statistical report, 1958.....	15178
school finance, 1955-56 selected		telephone loan program (remarks)....	6926
indexes.....	16251	telephone system construction con-	
school statistics, 1955-56.....	10075	tract.....	4047
<b>USSR—</b>		<b>Rural electricity, see Electricity.</b>	
local antiaircraft defense.....	16543	<b>Rural families, see Families.</b>	
public health, next tasks.....	12973	<b>Rural life, see Country life.</b>	
veterans housing—		<b>Rural mail carriers, see Mail carriers.</b>	
credit under VA guaranteed loan		<b>Rural resource leaflets.....</b>	1161 5396, 13569
program, additional funds—		<b>Rural schools, see Schools.</b>	
law.....	9793	<b>Rural telephone companies, see Tele-</b>	
reports.....	3312, 4547	phone.	
extend, report.....	12221	<b>Rural zoning, why and how.....</b>	1298
proposed increase in interest rate		<b>Rushville, Ind., railroad accident....</b>	9153
on guaranteed and direct loans,		<b>Russell, Charles M., statute, accep-</b>	
hearings.....	4663	tance, proceedings, text.....	12331A
see also Country life.		<b>Russia, mining and transporting coal</b>	
<b>Rural credit, see Agricultural credit—</b>		by hydraulic methods, litera-	
Credit Unions.		ture survey.....	13316
<b>Rural delivery service from its be-</b>		see also Russian Soviet Federal So-	
ginning.....	1143	cialist Republic—Union of So-	
<b>Rural development program:</b>		viet Socialist Republics.	
conference proceedings, summary....	1162	<b>Russian accessions, L.C. monthly</b>	
credit principles, guide.....	5396	index.....	2772, 11312
leaders in areas concerned to imple-		<b>Russian language:</b>	
ment program (address).....	11619	glossary, ice found at sea.....	13305
low-income areas, guidelines for		sentence analysis for machine trans-	
rural leaders.....	13714	lation, Soviet development.....	1746
program, etc., handbook.....	17835	<b>Russian literature, periodicals in</b>	
progress, 3d annual report.....	85	Helsinki University Library,	
progress, 4th annual report.....	17209	checklist.....	8019
<b>Rural Development Program Commit-</b>		<b>Russian roulette (address).....</b>	5766
tee, rural resource leaflets.....	1161,	<b>Russian Soviet Federal Socialist Re-</b>	
5396, 13569		public, plan for training of	
<b>Rural development program news....</b>	2911,	medical personnel, 1959-65....	9259
11455		<b>Russian trade, trick or treat?....</b>	7262
<b>Rural electrification, see Electrifica-</b>		<b>Rust, see Corrosion and anticorro-</b>	
tion—Rural Electrification Ad-		sion.	
ministration.		<b>Rusts (plant diseases), see Melamp-</b>	
<b>Rural Electrification Administra-</b>		sora—Stem rust—White pine	
tion:		blister rust.	
appropriations, 1960, Agriculture			
Dept., hearings.....	5909, 14547		

# JANUARY-DECEMBER

	Entry		Entry
Ruthenium isotopes:		Safety of life—Continued	
Ru 106—		air safety—	
penetration through placental		alcoholic beverages on airlines,	
and mammary barriers, USSR		prohibit serving, hearings.....	14341
study.....	14941	development and improvement	
toxicology following administra-		from accident investigations	
tion through gastro-in-		(address).....	9728
testinal tract, USSR study....	5105	flying safety (periodical)....	2299, 10751
Rye:		investigator, examination an-	
acreage, yield, production, etc., by		nouncements.....	8471, 8475
States, 1866-1953.....	11654	naval aviation safety review....	2187, 10644
crop production.....	1259	water-landing impact on orbital	
price supports, amend act—		capsule from standpoint of	
hearings.....	7435	occupant protection.....	16884
minority views.....	7405	at sea—	
report.....	7405	collision prevention, interna-	
Tariff Commission report.....	13638	tional and inland rules and	
Rye meal, <i>see</i> Meal.		regulations.....	9744
Ryukyu Islands:		human factors problems affecting	
administration, mutual security		merchant ship navigation....	10416
appropriations, 1960, hear-		atomic energy program—	
ings.....	12274	Federal-State relationship, hear-	
civil affairs activities.....	4126, 13673	ings.....	15751
S		NASA reactor facility hazards	
S.B.A., <i>see</i> Small Business Adminis-		summary.....	3940, 5299
tration.		radiation hazards and work-	
S.C.S., <i>see</i> Soil Conservation Service.		men's compensation—	
S.D. series.....	2437, 10970	hearings.....	17314
S.E.A.T.O., <i>see</i> Southeast Asia Treaty		hearings, summary analysis....	15750
Organization.		selected materials.....	4422
S.E.C., <i>see</i> Securities and Exchange		research and development in	
Commission.		reactor safety.....	11759
S.R. series.....	2438, 10971	uranium fuel fabrication facili-	
Saavedra, Jose, <i>see</i> Calza, Jose San-		ties.....	176
tiago S.		atomic weapons accident hazards,	
Sabin, Florence R., statue, accept-		precautions and procedures,	
ance, proceedings, text.....	9938	technical information bulletin.....	198
Sabotage, laws, compilation.....	284	boating safety promotion act—	
Saccio, Leonard J., nomination,		extend effective date, reports....	15846, 16118
hearing.....	6058	suggestions, highlights of act....	3246
Sacramento, Calif., electric facilities		businessmen and traffic safety....	1155
of area, map.....	16339	coal mines multiple short-delay	
Sacramento County, Calif.:		blasting, special precautions....	8034
land conveyance by Air Force—		coking industry injury experience....	921, 16695
law.....	15675	competitions—	
reports.....	12244, 16124	National Lime Association, 1958....	16693
Sacramento River, profile and dam		sand and gravel plants, 1958....	14997
site, national atlas sheet.....	14749	awards.....	
SAF stilling basin, structure to dis-		crash fire protection system for	
sipate destructive energy in		T-56 turbopropeller engine....	9385
high-velocity flow from spill-		dangerous or unsafe buildings,	
ways.....	5527	District of Columbia, removal,	
Safe Harbor, Pa., electric facilities		amend act, report.....	5994
of area, map.....	16335	don't be shocked, remember 110	
Safe new drugs.....	442	volts can kill you.....	7971
Safe wholesome meat for every one		electric shock and its prevention....	9484
(paper).....	11610	Forest Service safety story, 1958....	10176
Safety and Service Bureau, Railroad		ground safety, Air Force manual....	3090
Safety Section, report, 1958....	3640	highway safety promotion, Federal	
Safety engineers:		role, Commerce Dept. report....	5813
examination announcement.....	15521	highway traffic, Federal aid pro-	
safety promotion specialist (mar-		gram, accomplishments (ad-	
time), examination announce-		dress).....	5391
ment.....	11848	HSS series.....	915, 8026, 16693
Safety equipment and appliances:		13310-312, 14997, 16693	
aboard vessels, Coast Guard to pre-		industrial machinery safeguarding,	
scribe regulations—		principles and techniques.....	6628
law.....	15624	industrial workers, publications	
reports.....	12478, 14295	price list.....	9465
require installation of certain de-		industry, controlling noise hazards....	14970
vices on motor vehicles sold,		ionizing radiation, small doses, ef-	
shipped, or used in interstate		fect on blood in relation to	
commerce hearings.....	14342A	occupational harmfulness,	
safety appliance acts, compilation....	12800	USSR study.....	13157
Safety in the air, <i>see</i> Safety of life.		make your farm pond safe, prevent	
Safety inspectors, examination an-		drownings.....	8331
nouncement, amendment.....	8472	metal and nonmetal industries,	
Safety of life:		1955.....	16696
AEC and contractor conference		mine safety—	
proceedings.....	8411	coal mining injury experience,	
AEC atmospheric radioactivity		analysis.....	919
studies.....	8413		

# INDEX, 1959

	Entry		Entry
<b>Safety of life—Continued</b>		<b>Saginaw Bay:</b>	
mine safety—continued		drift bottle movements, surface	6194
Federal coal-mine safety act—		current studies	6194
administration, 1952-58	10428	fluctuations in commercial fish-	
amend to remove exemption		eries 1885-1956	9046
for mines employing 14		Sailing directions, address	13904
or less—		see also names of localities.	
hearings	12562	<b>Sailors:</b>	
report	16177	deceased, disposition of money, etc.,	
respiratory protective devices		amend U.S. Code—	
approved by Mines Bureau	8029	law	15728
mineral-extractive industries, in-		reports	15837, 16172
jury experience, 1955-57	915	earnings and employment on U.S.	
motor vehicles safety legislation,		flag ships—	
hearings	14342A	departmental edition	3812
naval aviation safety equipment,		document edition	3268
obtaining, handling, etc., man-		fees for consular services and pass-	
ual	8279	ports, hearings	12534
nuclear reactor hazards summary		harbor craft crewman's handbook,	
report, preliminary	194	technical manual	3150
nuclear ships, safety in construc-		ILO recommendations regarding en-	
tion and operation (remarks)	8988	gagement on vessels of other	
occupants of vehicles at low impact		countries, documents, social	
speeds, investigation of crush-		conditions, etc.	7339
able structures for acceleration		insurance and disability benefits,	
protection	17757	transfer functions—	
ordnance manual	9446, 10553	law	14081
problems in powder metal handling	4317	reports	12464, 14296
public safety radio services FCC		licensing, etc. merchant marine	
rules and regulations	7701, 12637, 14618	personnel rules and regula-	
radionuclides in air and water,		tions	13899
maximum permissible concentra-		wages, prohibit arrestment under	
tions for occupational ex-		State tax laws—	
posure	9396	law	15633
reactor safeguards, advisory com-		reports	12256, 12393, 14301
mittee operations—		wages, types of arrestment pro-	
hearings	12028	hibited, clarify, hearing	12552
reports	7316, 8419	St. Ann's Churchyard, designate as	
reactor safety, literature search	4324	national historic site, re-	
safety & fire protection technical		port	12234
bulletin	13815	St. Ann's Infant and Maternity	
safety and special radio services,		Home:	
FCC applications and actions	2533, 11068	naming—	
safety investigation regulations,		law	14055
SIR series	5719	reports	12141, 12518
safety promotion specialist (mar-		St. Ann's Infant Asylum:	
itime), examination announce-		change name and remove limita-	
ment	11848	tions on property value—	
safety record	2907, 11452	law	14055
safety review	2678, 11217	reports	12141, 12518
safety standards	2732, 11269	Saint Anthony Falls Hydraulic Lab-	
safety technology and labor protec-		oratory, stilling basin, de-	
tion in laboratories, etc., using		scription	5527
radioactive materials, USSR		St. Croix River, Maine, to Watch Hill,	
studies	3646	R.I., light list	5760
ship repairing, regulations, propos-		St. Elizabeths Hospital, Washington,	
als	10401	D.C.:	
standards for government passen-		general information	8208
ger carrying motor vehicles,		psychiatry and intern training,	
establish—		residency, programs	9483
hearings	14342A	three top positions, fix salaries	
reports	12211, 14241	report	16183
survival information on protection		St. George Reef, Calif., to Alaska,	
from sharks	15249	light list	4404
tornado safety rules	5464	St. Ignace, Sister, see Stankus,	
traffic safety immediate needs and		Sophie.	
long-range objectives, report		St. Joseph Lead Co., mining methods	
of conference	5389	and costs, Indian Creek Mine,	
transportation of pupils, school bus		Washington County, Mo.	6646
traffic laws	366	St. Lawrence Gulf, sailing directions,	
work with uncovered radioactive		change	4937
substances, individual protec-		St. Lawrence River and Valley:	
tion, USSR study	13265	developing American markets	
Yankee power reactor, critical ex-		through Seaway (address)	7255
periments hazards report	9669	international rapids hydroelectric	
Safflower, oilseed crop, growing,		power project, licensing amend	
etc.	3058	Federal power act—	
Sagadahoc Bay, living and ancient		law	12010
Gemma clam populations, com-		reports	7544, 12119
parisons	3495	navigation improvements of Great	
		Lakes connecting channels,	
		agreement with Canada	9510



# JANUARY-DECEMBER

	Entry
<b>St. Lawrence River and Valley—Con.</b>	
sailing directions, change-----	4037
seaway and power project-----	
bibliography, supplement-----	15180
climatology and weather services-----	7003
development opportunities for maritime industry (address)-----	17406
highway of American merchant marine (remarks)-----	6129
new avenue of commerce for cities and Great Lakes (address)-----	5767
new horizon for Port of Buffalo (remarks)-----	8989
newest segment of our transportation system (address)-----	15550
potential effects on costs of transporting grain-----	5550
review of construction and operation (address)-----	4048
service and economics, transportation progress (text of address)-----	9750
tariff of tolls, agreement with Canada-----	8244
surface water of basin, quality, 1955-----	12771
<b>St. Lawrence Seaway, see St. Lawrence River and Valley.</b>	
<b>St. Lawrence Seaway Development Corporation:</b>	
annual report, 1958-----	
departmental edition-----	8209
document edition-----	7335
appropriations, 1960-----	
hearings-----	8981
law-----	11975
reports-----	8641, 8868, 12131
audit report, 1958-----	4436
releases-----	2917, 11462
<b>St. Louis, Mo.:</b>	
electric facilities of area, map-----	16337
occupational wage survey-----	
departmental edition-----	3816
document edition-----	3272
<b>St. Louis Labor Health Institute,</b>	
dental care in group purchase plan-----	17038
<b>St. Mary Parish, La., soil survey-----</b>	9500
<b>St. Mary's Falls Canal, lake commerce through canals, 1957-----</b>	388
<b>St. Marys River:</b>	
bridge construction, extend time-----	
hearings-----	16198
law-----	15678
reports-----	14224, 16166
views-----	16166
John A. Blatnik lock, designating, report-----	9875
<b>Saint Matthew Island, reindeer range study-----</b>	14076
<b>St. Paul, Minn.:</b>	
electric facilities of area, map-----	16337
occupational wage survey-----	
departmental edition-----	7977
document edition-----	7324
wood use by manufacturing firms-----	17460
<b>St. Petersburg, Fla., Earning Opportunities Forum, report-----</b>	9559
<b>St. Pierre Island, sailing directions-----</b>	6307
<b>Salpan, geology-----</b>	12767
<b>Sakihara Koki, relief of estate-----</b>	9823, 13949, 14397
<b>Salad dressings:</b>	
mayonnaise, and related products-----	
facts for industry, 1957-58-----	7207
production, etc., 1958-----	17275
<b>Salad oil, see Oils.</b>	

	Entry
<b>Salaries:</b>	
clerical in New York City since 1948-----	8006
Coast and Geodetic Survey special employees, Secretary of Commerce to prescribe, report-----	14498
compensation for certain employees of former Senator John D. Hohlitzell, Jr., report-----	4700
deceased members of House of Representatives, procedure for paying-----	
law-----	11989
reports-----	8636, 12422
deferred compensation, use in small business-----	17073
District of Columbia teachers, amend act, report-----	12260
Federal agencies, principles and procedures, GAO guidance manual-----	9109
Federal classified employees, changes 1955-58-----	8008
Federal positions, legislative control, report-----	306
fireman and policemen, 1954-58-----	888
Government employees-----	
appropriations for year end pay periods, amend act of 1945-----	
hearing-----	8748
law-----	12008
reports-----	8650, 10008
bimonthly statistics-----	2462, 10094
certain executive positions, adjustment-----	
law-----	15734
reports-----	12426, 14315
classified, changes, 1952-58-----	3818
pay structure of Federal civil service, June 30, 1958-----	8482
higher education institutions-----	8035
House of Representatives-----	
employees, specify rates, report-----	8639
official committee reports office and official reporters of debates office, fixing, reports-----	5846, 14271
positions, basic compensation to be fixed at multiples of \$50, report-----	4609
lighthouse keepers, etc., increase compensation-----	
law-----	15674
reports-----	12167, 14527
mulhollanders, increase, hearing-----	15956
National Outdoor Recreation Resources Review Commission employees, exempt from classification act-----	
law-----	5780
reports-----	4596, 4720
overseas differentials and allowances act, report-----	15789
Patent Office supergrade and research scientific positions, establish rates, hearings-----	15957
police of National Zoological Park, increase, amend act-----	
law-----	15743
reports-----	14272, 16090
postal service employees, personnel handbook-----	2877, 11416
public health workers-----	6916
public school teachers, Federal financial support to States-----	
hearings-----	7462, 8905
report-----	8708
views-----	8703
railroad officers, directors, etc., referees in bankruptcy, consolidate with expense funds-----	14786
law-----	11997
reports-----	5881, 9995

# INDEX, 1959

Entry	Entry
<b>Salaries—Continued</b>	<b>Salt—Continued</b>
St. Elizabeths Hospital, establish increases for 3 top positions, report.....	factors affecting plasticity of single crystals.....
16183	16901
State public health workers.....	minerals yearbook chapter.....
5385	16733
teachers, etc., of defense Department's dependents schools overseas—	polycrystalline, ductility, introductory study.....
hearings.....	16902
7478	production, etc., 1958.....
law.....	5194, 16712
11978	tolerance of grasses and forage legumes.....
reports.....	82
7423, 7542	tolerance of vegetable crops in West.....
Weather Bureau special employees, Secretary of Commerce to prescribe, report.....	15304
14498	<b>Salt Fork of Red River:</b>
<i>see also</i> Wages.	water resources development feasibility, Interior Dept. to study—
<b>Sales:</b>	law.....
closing-out and fire, regulation in D.C.—	14022
law.....	reports.....
14071	5837, 12495
reports.....	<b>Salt Lake City, Utah, Metropolitan Water District, land conveyance, report.....</b>
7406, 14468	14220
Commodity Stabilization Service reports.....	<b>Salt Wash sandstone, <i>see</i> Sandstone.</b>
2435, 2439, 10968, 10972	<b>Salt water, <i>see</i> Sea water — Water supply.</b>
department store sales—	<b>Salts:</b>
annual distribution by months, 1958.....	fused, systems, ionic mobilities.....
6162	15402
monthly reports.....	heavy, effects on protein content of kidneys, blood, etc., USSR studies.....
2584-85, 11121-122	6594
selected cities and areas, weekly percentage changes.....	9623
2593, 11131	molted, bibliography.....
2595, 11132	submicron particles, production methods.....
weekly index.....	13525
figures, making sales figures talk.....	<i>see also</i> Sodium salts.
13584	<b>Salvador:</b>
installment, law in Venezuela.....	Army mission, agreement.....
6223	5421
large corporations.....	economy, basic data.....
2591, 11128	10150
new products, bibliography.....	import tariff system.....
8217	9075
<i>see also</i> names of commodities, etc.	sending gift packages to.....
<b>Sales finance companies, <i>see</i> Finance companies.</b>	16407
<b>Salesmen and salesmanship:</b>	<b>Salvage:</b>
contests for wholesalers.....	flooded electrical equipment, procedure.....
17844	13513
keeping your salesmen enthusiastic.....	historical and archeological data threatened by construction of dams, preservation, report.....
13580	8864
promotion of sales of dairy products abroad, address.....	<b>Samar Islands, east, south and west coast, sailing directions.....</b>
270	17499
return of Yankee trader to increase sale of American products abroad (address).....	<b>Samoa, <i>see</i> American Samoa.</b>
271	<b>Sample sustained-yield plan illustrating application of minimum requirements for sustained-yield management and specifications for sustained-yield management plans.....</b>
selling to Government, basic information for small firms.....	6269
4052	<b>Sampling:</b>
selling to Navy prime contractors.....	air, how air pollution is measured and studied.....
6869	6917
Saline County, Kans. soil survey.....	environment of salmon spawn, use of plastic sandpipe.....
4065	4862
Saline water, <i>see</i> Water.	multi-level continuous procedures and tables.....
<b>Salinity:</b>	1581
soil, tolerance of grasses and forage plants.....	procedures and tables for inspection—
82	by attributes, military standard.....
water-tightness of Newport-Inglewood structural zone.....	12581, 14586
12773	by variables for percent defective.....
<b>Salivary glands, activity in dogs after massive single X-ray irradiation in area of abdomen.....</b>	3407
823	<i>see also</i> names of substances or objects sampled.
<b>Salmon:</b>	<b>Sampling devices, spout-type automatic sampler for farmers stock peanuts.....</b>
chinook and blueback in Wenatchee River, biology.....	11639
14674	<b>San Andrés Island, weather stations, agreement with Colombia.....</b>
conservation on high seas, hearings.....	10608
17356	<b>San Andrés National Wildlife Refuge, birds.....</b>
experimental fishing to determine distribution in North Pacific Ocean and Bering Sea, 1956.....	3507
16389	<b>San Antonio, Tex., railroad accident.....</b>
Okanozan River blueback, spawning escapement, 1957.....	546
6199	<b>San Antonio River:</b>
16380	basin representative on study commission—
<b>Pacific Ocean</b>	law.....
red, growth and development effects of fertilizing Bare Lake, Alaska.....	14077
17427	reports.....
silver, water soluble vitamin requirements.....	7581, 14260
4865	<b>San Benito International Bridge Co.: construct bridge across Rio Grande near Los Indios, Tex.—</b>
sockeye, etiology of virus disease.....	hearings.....
7759	14198
spawning, environment plastic standpipe for sampling.....	law.....
4862	15703
<b>Salt:</b>	
applications in electrofishing, effectiveness.....	
3513	
content of eviscerated haddock frozen in brine.....	
7742	
effect on incendiarity of permissible explosives, probability studies.....	
9351	

# JANUARY-DECEMBER

	Entry
San Benito International Bridge Co.—Continued	
construct bridge across Rio Grande near Los Indios, Tex.—con.	
reports	14308, 16166
views	16166
San Bernardino, Calif., electric facilities of area, map	16339
San Clemente Island, geologic reconnaissance	512
Sand:	
drift on beaches near San Francisco, Calif	8970
minerals yearbook chapter	17714
mold and core, bonded with sodium silicates, factors affecting performance	6863
plants, safety competition awards, 1958	14997
production, etc., 1958	5200, 15021
silica mining and processing at Overton, Nev., by Simplot Silica Products, Inc.	13317
Sand dunes, <i>see</i> Dunes.	
Sandhills:	
Carolina, slash pine—	
plantations, cubic foot volume tables	12754
weight of merchantable wood with bark	12753
San Dimas Experimental Forest, rainfall sampling, simplified method	7806
Sandstone:	
Appalachian oil-reservoir, minimum water-saturation and other core tests	6662
Kansas oil sands containing viscous crude oils, results of waterflooding	5186
methods for determining water contents of oil-bearing formations	13362
Morrison formation—	
electrical properties	14745
Salt Wash member, Jo Dandy area, Colo., distribution of chemical elements	16466
Sandwich construction, <i>see</i> Aircraft—also Panels (aircraft)—Panels (building).	
San Francisco, Calif.:	
beaches, sand drift, 1956-57	8970
eggs, frying chickens and turkeys sold, marketing costs and price spreads	7056
electric facilities of area, map	16339
Federal-State-local relations, hearings	3327
mail routes, schedule for region	15151
occupational wage survey—	
departmental edition	7978
document edition	7325
post office automation and modernization program	15150
standard metropolitan area, population estimate	207
San Francisco Bay, rail transit crossing, construction, etc., report	15899
San Francisco, Pacific Festival, 1959: President to invite foreign countries to participate—	
law	15638
reports	15787, 16085
Sanitary engineers, manpower survey	17053
Sanitary fills, engineering and design manuals	8962
Sanitation:	
development in USSR, role of G. V. Khlopin	7963
dining cars in operation, handbook	13561
East Germany	6510, 10284, 13029, 13042, 13126, 14869

	Entry
Sanitation—Continued	
environmental sanitation series—	10572
facilities for Indian homes, communities, etc., PHS to provide—	
hearings	8738
law	12007
reports	7578, 12117
food products, sanitary evaluation as determined by use of Roentgen units and ultrasonic defectoscope, USSR studies	3721
grain, Food and Drug Administration program, recommendations	439
home	1149
laboratories for radioactive substances, requirements for planning and equipping, USSR	13268
poultry and poultry products, Public Health Service recommendations, supplement	4025
publications, price list	15161
railroad passenger and dining car construction, handbook	13562
requirements of Federal meat grading service manual	13681
research activity by Institute for Hygiene, Bucharest Rumania in 1956	860
sanitary-epidemiological matters, USSR study	14853
sanitary living conditions of Soviet people in light of 7 year plan for development of national economy	13274
sanitary protection of open water reservoirs from contamination by radioactive substances, USSR	5102
scientific work of sanitary-epidemiological stations in USSR	1940
shellfish industry, control manual	8194
Sanitation, <i>see</i> Sanitary engineers.	
San Jacinto Ordnance Depot, disposal, hearing	9901
San Joaquin Experimental Range, publications, annotated bibliography	6239
San Joaquin Valley, ground, water conditions and storage capacity	14762
San Jose, Calif.:	
population, special census	5682
standard metropolitan area, population estimate	207
San Juan, P.R.:	
property conveyance—	
law	14034
reports	8863, 14226
San Juan-Chama project:	
construct—	
hearing	7623
report	6024
San Juan County, Colo., lead-zinc deposits in Ross Basin-Lake Como area	16732
San Juan County, Utah, Aneth field, reservoir-oil characteristics	16730
San Juan Magnetic Observatory, magnetograms and hourly values	3241, 17301
San Juan Mountains, metal-mining districts of Colorado, reconnaissance for radioactivity	3596
San Juan National Historic Site: property conveyance to San Juan, P.R.—	
law	14034
reports	8863, 14226
San Luis unit, <i>see</i> Central Valley project.	
Santa Ana, Calif., hydrology of area	12773

# INDEX, 1959

	Entry		Entry
Santa Barbara County, Calif., ground-water appraisal of Santa Ynez River basin	9125	Satellites—Continued	
Santa Cruz, Calif.:		United States and Russian, 1957–59, statistics	9388, 16931
harbor improvement, engineer report—		Vanguard command receiver description	2088
departmental edition	1605	world communication uses—	
document edition	1513	bearing	8754
Santa Maria project, Calif., report on history, etc.	4043	reports	7411, 9923
Santa Monica, Calif., geology, hydrology, and chemical character of ground water of area	9123	Satterthwaite, Joseph C., testimony on Africa, hearings	14334
Santa Ynez River, ground water appraisal of basin	9125	Saturday Mountain formation, see Ordovician period.	
Santo Domingo Pueblo, N. Mex.:		Saturn (planet):	
Federal property donation—		rings, transmission, optical properties	1171
law	8511	Saudi Arabia, economy, basic data	460
reports	6019, 7361	Sault Ste. Marie, Mich.:	
Saratoga, Wyo., uranium reconnaissance investigation of area	3594	bridge across St. Marys River, construction, extend time—	
Saratoga National Historical Park:		hearings	16198
general information	16968	law	15678
historical handbook	13490	reports	14224, 16106
Sarcosin:		views	16106
active anti-tumor preparation, changes in rat sarcoma during treatment, USSR study	1889	lake commerce through canals, 1957	388
use in cure of rat sarcoma with aid of vital luminescent fluoroscopy method	1892	Poe lock replacement, designate John A. Blatnik lock, report	9875
Sarcoma, see Tumors.		Sault Ste. Marie, Ontario, lake commerce through canals, 1957	388
Sardis Lake, general information	6677	Sawannah (nuclear ship):	
Sashes, Ponderosa pine, standard of trade	9679, 17274	launching (remarks)	9748, 10101
Satellites:		world's first nuclear powered merchant ship, description	10100
above earth's atmosphere, temperature calculation	7106	Savedra, Santiago Calza, see Calza, Jose Santiago S.	
attitude controls, weight comparison	3947	Saving and thrift:	
circumplanetary orbits, rendezvous methods and velocity requirements	17743	bona fide plan, essential requirements	1227
communication, optimum frequencies	13578	savings and home financing—	
descending, circular transfer trajectories, description and analysis	17764	chart book, 1959	7704
dynamic analysis of simple re-entry maneuver for lifting	16887	source book, 1959	12643
entry, minimize acceleration by variation of drag with lift	17751	savings data, FHLBB monthly report	2543, 11079
gravity torque on orbiting, shield-inflatable aluminized plastic sphere, predicted characteristics	17750	savings process and monetary policy (address)	6166
man on wings, USSR study	6534	teaching thrift through school savings	17838
1958 alpha and 1958 beta, Min-track data	2084	Savings accounts, see Banks and banking.	
optical observation station bulletin, literature translations	10244	Savings and loan associations:	
polymeric coatings, effects of ultraviolet irradiation	6858	flow of savings	2540, 11076
reports by USSR at 5th meeting of CSAGI	551	insurance coverage for husband and wife in community property jurisdictions—	
Russian, 1957, orbital motion observations	7072	law	11990
2d Soviet	13769	reports	9873, 12429
Soviet-block IGY literature translations	9187, 12868	Insured Government underwritten mortgage holdings, Dec. 31, 1958	16318
Soviet movement, results of observations, literature translations	7895	mortgage lending activity, monthly report	2541, 11077
Soviet observations	843	number of offices under Federal Home Loan Bank System by location of facility, 1957	4813
space experimentation plans and programs of NASA (address)	10464	participation loan program	3820
studies of upper atmosphere	13767	participation loan transactions	6124
three-dimensional orbits including effects of earth albedo and atmospheric rotation	1088	promoting local management by regulating holding companies—	
tracking station sites on Grand Turk Island, agreement with Great Britain	10599	hearings	9905, 14553
tracking stations program, agreement with Chile	10600	law	15738
		reports	12177, 12200, 14521
		savings and home financing—	
		chart book, 1959	7704
		source book, 1959	12643
		savings, mortgage financing and housing data	2543, 11079
		trends, 1958	401
		see also Federal savings and loan associations.	
		Savings banks, see Banks and banking.	
		Savings bonds:	
		best buy today and tomorrow, Army pamphlet	15388



# JANUARY-DECEMBER

	Entry		Entry
<b>Savings bonds—Continued</b>		<b>Scanners:</b>	
exchanges, income tax treatment—		TsuyaTacan uses.....	188
law.....	15711	volumetric scanning ground con-	
reports..... 14319, 14541, 15891, 15924		trolled approach antenna pro-	
views..... 14319, 14541		prototype.....	1126
faith in the future (remarks).....	2120	<b>Scanning, electromechanical, array</b>	
individual investments..... 3456-57,		of spiral doublets, develop-	
4814, 14624		ment.....	10535
<b>Interest rate increase on series E</b>		<b>Scarab beetles, see Beetles.</b>	
and H, etc.—		<b>Scarabaeidae, see Beetles.</b>	
law.....	15711	<b>Scarlet fever, death rates by age,</b>	
message from the President.....	15770	color and sex, 1949-51.....	3967
reports..... 14319, 14541, 15891, 15924		<b>Scattering:</b>	
views..... 14319, 14541		elastic, of alpha particles by	
issued and redeemed..... 2604	11142	0-16.....	17723
presentation of Treasury Minute		low energy neutron, by non-	
Man Flag to Birmingham, Ala.,		spherical nuclei.....	3156
post office (remarks).....	13549	particle-size analysis, Mie and	
reasons for selling.....	8210	Rayleigh theory, nuclear re-	
remove interest rate ceiling, hear-		actor technology, analytical	
ings.....	8764	chemistry.....	8410
series A-E, tables of redemption		radiation from distant source when	
values.....	11433	angular scattering function is	
series A-K, convenient reference		known, computation.....	17800
for financial consultants.....	2121	<b>Scattering of radio waves, see</b>	
series information—		Radio waves.	
E, general, department circular.....	17142	<b>Schedule of blind made products.....</b>	3172,
H, general, department circular.....	17144	8423, 13816	
teaching thrift.....	17838	<b>Scholarships:</b>	
voluntary payroll savings plan pro-		aviation career and scholarships	
vision, amendment.....	17143,	reference sources.....	8936
17883-884		in space age, for college students.....	9315
<b>Savorgnan, Rosette S., relief.....</b>	5950	information.....	6100
<b>Sawflies, see Flies.</b>		<b>School age children, see Children.</b>	
<b>Sawmills:</b>		<b>School attendance, disability days</b>	
circular, quality control in opera-		United States July 1957-June	
tion.....	10621	1958.....	10568
equipment, techniques and financial		<b>School boards, see Educational boards</b>	
requirements.....	9144	and departments.	
industry problems—		<b>School buildings:</b>	
hearings.....	1571, 6076	construction, etc. Federal financial	
report.....	7573	support to States—	
pine, utilization of residues for		hearings.....	7462, 8905
pulp chips.....	4110	reports.....	8703, 16186
ponderosa pine lumber in Black		views.....	8703, 16186
Hills, grade recovery.....	7835	<b>elementary and secondary schools,</b>	
profits by marketing air-dried		fall 1958, statistics.....	3419
lumber, study.....	3557	<b>federally affected areas, construc-</b>	
small, improvement, practical		tion assistance—	
pointers to field agencies.....	624	amend law hearings.....	17332
work injuries and injury rates.....	16656	annual report, 1958.....	4772
<b>Sawtimber, see Timber.</b>		financing public school facilities,	
<b>Sawyers, Thomas J., relief.....</b>	4510	funds, local, State and Federal,	
5979, 7300		for public school facilities.....	4774
<b>SBA, see Small Business Adminis-</b>		<b>insurance, managing local pro-</b>	
<b>tration.</b>		<b>gram.....</b>	14592
<b>Scab, disease of cereals, description</b>		<b>management bibliography, 1950-</b>	
and control measures.....	5541	<b>58.....</b>	7672
<b>Scabies:</b>		<b>public construction financing.....</b>	8944
diagnosis, eradication, etc., train-		<b>school facilities services.....</b>	4780
ing course, report.....	11604	<b>school plant literature, selected</b>	
sheep and cattle, eradication, re-		<b>list.....</b>	4780
port, 1959.....	13707	<b>School buses:</b>	
<b>Scalloping, classification bulletin.....</b>	13539	purchasing plans and procedures.....	361
<b>Scale, prevention by acid injection in</b>		<b>traffic laws.....</b>	366
<b>vapor compression distillation</b>		<b>School children, see Children.</b>	
<b>units, test result.....</b>	10639	<b>School districts:</b>	
<b>Scales (fishes):</b>		employees, nonprofessional, social	
chemical and enzymatic hydrolysis.....	426	security coverage—	
pollock—		law.....	15649
amino acid composition of protein		reports.....	4576, 6027, 14306
and inorganic constituents of		<b>finances, census of governments,</b>	
ash.....	427	<b>1957.....</b>	1463
nutritive value as determined by		<b>announcement and order form.....</b>	1459
rat feeding tests.....	4861	<b>School facilities, see School buildings.</b>	
<b>Scales (measures):</b>		<b>School life (periodical).....</b>	2496, 11027
aerial photography, comparisons		<b>School lunches:</b>	
for making stand measure-		fish recipes.....	6203
ments.....	17468	<b>foods distributed under act, nu-</b>	
<b>Scales (weighing instruments):</b>		<b>tritional enrichment and sani-</b>	
weighing and measuring devices,		<b>tary packaging—</b>	
specifications, etc., 1959 cor-		hearing.....	8876
rection sheets.....	17769	<b>report.....</b>	14445
<b>Scallops, how to cook.....</b>	12692		

# INDEX, 1959

	Entry		Entry
<b>School lunches—Continued</b>		<b>Schools—Continued</b>	
markets and food service facilities, sales opportunities (remarks).....	7028	State systems, organization, etc., statistics, 1955-56.....	364, 8930
recipes using dried eggs.....	11563	students, transition to work, study of school leaver (paper).....	13300
School plants. <i>see</i> School buildings.		training, technical cooperation agreement with Mexico.....	17864
School superintendents, etc., Federal government and States directory 1958-59.....	1596	transfers of Indian school properties to local school districts, remove 20-acre limitation, report.....	8834
Schoolhouses, <i>see</i> School buildings.		urban systems, 1957-58, current expenditures per pupil.....	16255
<b>Schools:</b>		USSR, reorganization problems.....	847
administration, government publications covering facts, list.....	5376	<i>see also</i> Elementary education—	
air traffic control training, validation of selection measures.....	8370	High Schools—Maritime academies—Military education—	
civil rights conference.....	11830	National Stay-in School Campaign—School buildings—	
Defense Department's dependents schools overseas, salaries and personnel administration system for teachers, etc.—		School lunches— <i>also</i> names of schools or places where located.	
hearing.....	7478	Schools of forestry, <i>see</i> Forests and forestry.	
law.....	11978	Schrader, Edith C., gratuity payment for services of Arthur E. Cook, as architect of capitol, report.....	16064
reports.....	7423, 7542	Schutt Construction Co., Inc., relief.....	8621
desegregation problems, strengthen law, etc.—		<b>Science:</b>	
recommendations of the President.....	3289	Academy of Medical Science, USSR—	
report.....	15808	Medico-Biological Sciences Division activities.....	7809
enrollment characteristics.....	206	scientific research work of institutions, results.....	14915
enrollment, population characteristics, census.....	5678	Academy of Sciences of Armenian SSR, news, abstracts, physico-mathematical, natural, and technical sciences series.....	10833
federally affected areas financial assistance, amend law, hearings.....	17332	Academy of Sciences of Estonia SSR, news abstracts, technical and physico-mathematical sciences series.....	10834
financial accounting for school activities, guide.....	14501	Academy of Sciences of Georgian SSR, Institute of Geophysics, organization, achievements, etc.....	1938
foreign language laboratories.....	360	Academy of Sciences of Ukr SSR, reports, abstracts.....	7185
insurance, managing local program.....	14592	Academy of Sciences of USSR—	
key audio-visual personnel in public schools, directory.....	3422	new books, brief reports on publications.....	6623
local and State systems, property accounting guide.....	17374	news, abstracts—	
local systems, financial programs, State provisions affecting.....	7666	Department of Chemical Sciences.....	8438, 10835
local systems, statistics, 1955-56.....	8931, 12590	Department of Technical Sciences.....	7181, 10836
lunchroom personnel, work injuries (address).....	16670	geography series.....	10837
mechanic school certificates, civil aeronautics manual.....	16294	geology series.....	10838
milk program—		mathematics series.....	10839
extend, hearings.....	7439, 12266	physics series.....	8439, 10841
increase authorization—		reports, abstracts.....	7186, 10862
hearings.....	7439, 12266	review of 1958 activities.....	17546
law.....	5784, 14018	all-Union conference on philosophical problems of natural science (USSR).....	10374
reports.....	5781, 6012, 6041, 12187	Bulgarian Academy of Sciences, budget funds allocated for 1958.....	5009
pupil participation.....	104	careers for women.....	1969
People's Republic of China.....	4968	<b>Czechoslovak Academy—</b>	
public—		conference on problem of organ and tissue transplantation.....	7960
market for canned fruit, vegetables and juices.....	11568	organization, publications, etc.....	677, 716
rural, finance, 1955-56, selected indexes.....	16251	Czechoslovak Institutes, activities, etc.....	731, 732
rural, statistics, 1955-56.....	10075	development and progress, effect of free exchange restrictions, hearing.....	16215
small and medium-sized cities, current expenditures per pupil.....	363	dissertations for degrees at USSR educational institutions, lists.....	6625, 10384, 16545, 16634, 17574, 17649
State control, amend constitution to reserve, hearings.....	16211		
support act of 1959—			
hearings.....	7462, 8905		
report.....	8703		
views.....	8703		
radiological defense education handbook for interim use.....	3198		
rural school survey (series).....	362, 10075, 16251		
savings program, why and how of.....	17838		
special, North Korea, selected translations.....	13219		
State, administration, 1900-57, surveys and studies, list by States.....	10076		
State legislation, 1957.....	7664		

Science—Continued	Entry
education activities of AEC (remarks)-----	9670
education and research promotion, amend National Science Foundation act—	
hearings-----	17340
law-----	14080
reports-----	12235, 18054
education, national goals and needs, report of President's advisory committee-----	10356
education program, 1959-60, Naval Research Laboratory-----	16994
Federal Government programs, 86th Congress, report-----	6002
funds for scientific activities in Federal Government, 1953 and 1954-----	1115
future international meetings, list-----	11819
improving supervisory and consultant services-----	12594
information activities of Federal agencies-----	9423
information news, national and international developments, 6841, Kazakh Academy of Sciences, results of activity during 1957, legislative, etc., actions, summarization-----	11401
life, Federal grants and contracts for research-----	1780
motion pictures and filmstrips, selected for use abroad, catalog—national defense education act of 1958—	6002
administration, hearings---	5336
guide-----	5924, 9908
natural science, role of biology as leading branch-----	3420
news features-----	4988
nonmilitary developments, potential impact on foreign policy-----	2420
physical—	16204
Communist China's progress---	
Federal grants and contracts for research-----	6561
physico-mathematical and natural sciences series, herald of Moscow University, abstracts, progress of physical sciences (USSR periodical), abstracts-----	13501
radioisotope utilization, literature search-----	10805
role in building of communism in USSR-----	7183, 10857
role in modern civilization, Century 21 Exposition, name, expenses, etc.—	
hearings-----	8405
law-----	5090
reports-----	12311, 15627, 14204, 14282, 14470, 15866
views-----	14204
science & life (USSR periodical), abstracts-----	10863
science and scientific institutions, USSR-----	7908
science and technology-----	10951
science in good eating-----	5320
scientific and technical meetings, international and foreign-----	2860
scientific communism in China, discussion of problems-----	12826
scientific information report, CIA-----	2378, 10909
scientific reports of higher schools, (USSR periodical), abstracts-----	10864-
scientific tests, standards, publications, price list-----	865, 9464

Science—Continued	Entry
secondary school teachers training opportunities, 1960 academic year and in-service summer institutes program-----	17792
Slovak Academy of Sciences, activities, functions, etc-----	746, 748
soil, Soviet abstracts-----	3782, 5091, 5094, 6551, 10296, 10324, 13018, 13063, 13071, 13092, 13207, 13222
Soviet academies, organization, personnel and activities-----	9199
Soviet Union and China, report-----	554
State Commission, establishment in Vietnam-----	10209
strengthening American science, report-----	2106
students, junior year, fall 1958, survey-----	16252
summer training for high-ability secondary school students, NSF program, announcement-----	6838
teachers, summer institutes-----	2076
training and education, NSF programs-----	6839
see also names of sciences.	
Science Advisory Committee, see President's Science Advisory Committee.	
Science and Astronautics Committee, House:	
calendar-----	10991
hearings, etc-----	7486-87, 8752-55, 9922-29, 12309-313, 14350-354, 15959-969, 17340-342
investigations and studies, aeronautical and other scientific research and outer space—	
authorization, report-----	3296
expenses, report-----	4545
miscellaneous reports, etc., hearings-----	17341
report on activities-----	15964
reports-----	4618, 5865, 7411, 7419, 7427, 9839, 9863, 9876, 12235, 14204, 14215, 14222, 15863-864, 15920-923, 15932
views-----	14204
Science and Technology Department, create, hearings-----	7618, 10044
Science and Technology Department Commission:	
establish—	
hearings-----	7618
reports-----	9991, 10044
Science Department, create, hearings-----	7618, 10044
Science Information Council:	
establish, guide to act-----	3420
law establishing, administration, hearings-----	5924
Science Information Service:	
establish, guide to act-----	3420
law establishing, administration, hearings-----	5924
Scientific apparatus and instruments:	
instruments and related products—labor turnover rates per 100 employees-----	7989
manufacturing plants, location by county and employment size-----	7224
radio services, FCC rules and regulations-----	12636, 14616
Scientific Conference on Effect of Ionizing Radiation of Higher Divisions of Central Nervous System, 2d, summary of papers, USSR studies-----	5107
Scientific directory and annual bibliography, National Institutes of Health, 1959-----	9472

# INDEX, 1959

	Entry		Entry
Scientific Manpower Conference, papers, 1958.....	17791	Scientific Research Sanitary Hygienic Institute in Leningrad, organization, role of G. V. Khlopin.....	7963
Scientific Ranks and Titles, Higher Certification Commission on, see Higher Certification Commission on Scientific Ranks and Titles (USSR).		Scientific seminar in operating sub-sections of hydrometeorological service, USSR.....	1880
Scientific research:		Scientific societies, North Vietnam scientific organizations, translations.....	14887
activities of members of Department of Hygiene, Microbiology, and Epidemiology, not working in institutes of Academy of Medical Sciences, 1956-57 review.....	6401	Scientific-Technical Association of Shipbuilding Industry, (USSR), see Shipbuilding Industry, Scientific-Technical Association (USSR).	
armed services support, investigation—		Scientific-Technical Council of Main Administration of Hydrometeorological Service, USSR, meeting of section on meteorology and hydrology.....	1873
authorization, report.....	3291	Scientists:	
expenses, report.....	3302	Air Force opportunities.....	4260
hearings.....	17330	Air Research and Development Command, career opportunities.....	147-148
basic activities in Defense Dept., report.....	15923	census, hearings.....	12309
basic and applied, administration (address).....	6996	civilian career opportunities in Army Department.....	15890
basic research in Air Force.....	4259	employment in American industry, Jan. 1957.....	2075
careers—		labor market conditions, bimonthly.....	2409, 11080
biologists, microbiologists, physiologists, examination announcement.....	15522	manpower—	
chemists, physicists, etc. examination announcement.....	15536	papers of 7th Conference on Scientific Manpower, 1958.....	17791
pharmacologists, examination announcement.....	11836	scientific manpower and education program—	
Czechoslovakia, higher schools, plans for work and their implementation.....	3716	hearings.....	9929, 12309
dissemination of information, role of government agencies, libraries, etc.—		report.....	15921
hearings.....	14350	National Medal of Science award—	
report.....	15020	law.....	14062
documentation, current research and development.....	8133, 17789	report.....	14222
economic and social implications, bibliography.....	17787	President's Committee on Scientists and Engineers—	
Federal budget, legislative and executive actions.....	2074	final report.....	15154
Government sponsored and supported, social sciences and interdisciplinary areas, semi-annual report.....	2861	2d interim report.....	15153
International relations in field of geology, USSR studies.....	6418	program for national information on scientific and technical personnel.....	15119
Investigation authorization, report.....	3296	record of scientific and technical personnel in U.S., study of need for, etc., hearings.....	17341
NASA space sciences program, description.....	8091	research, examination announcement.....	15536
new research and development reports available to industry.....	5672	research, production of creativity.....	5605
nutritive and fermentative microbiology, tasks in immediate future.....	12981	role in agricultural research (talk).....	5516
opportunities in fields of chemistry, mathematics, metallurgy, physics, examination announcement.....	15533	scientific manpower bulletin.....	2075
personnel in U.S., national record, hearings.....	17341	Soviet—	
research and development and economic growth (testimony).....	6840	biographic directory.....	16555
research and development at colleges and universities, expenditures and manpower, 1953-54 survey.....	6842	biographic information.....	7930, 17624
research and development expenditures of foundations and health agencies, 1957.....	16971	concern over dangers of nuclear weapon tests, articles.....	7914
small companies, list.....	2130	40 years of work in field of plague study.....	1957
Soviet, accessibility to U.S. scientists.....	3977	United States, access to Soviet scientific information.....	3977
Tsing-hua University, socialist approach.....	9217	see also Agricultural research scientists—Electronic scientists—Research scientists.	
undergraduate programs, NSF, 1960-61, suggestions for preparation of proposals, etc.....	16970	Scintillation:	
USSR competitions in development of new techniques, results.....	5035	apparatus, used, handbook, USSR study.....	17515
see also subjects.		spectroscopy, use in evaluation of radioactive contamination of human body.....	11720
		Scintillation counters geologic use.....	4023
		Scissors, see Shears.	
		Sclerosis, see Arteriosclerosis—Multiple sclerosis.	
		Scobel, Uwe-Thorsten, relief.....	7519, 8570A, 11885
		Scoops (air), see Air scoops.	
		Scotland, west coast, sailing directions.....	6310



# JANUARY-DECEMBER

	Entry		Entry
Scott, William K., memorial service	277	Sea slugs, <i>see</i> Sea cucumbers.	
Scott, William S., relief	4500, 11938, 12358	Sea urchins, Cenozoic echinoids of eastern U.S.	10193
Scott River, geology and groundwater features of valley	3606	Sea water:	
Seranton, Pa., electric facilities of area, map	16335	attenuation of electromagnetic radiation effects	8152
Scrap:		conversion research with solar energy	16486
enriched uranium, recovery, conference	11730	conversions (address)	6319
iron and steel, minerals yearbook chapter	15000	density, Pacific Coast, North and South America, and Pacific Ocean Islands	268
metal, duties and import taxes, suspension—		Seaboard Air Line R.R., accident	3637, 14793
law	12002	Seafood, <i>see</i> Sea food.	
reports	9878, 12420	Sealing compounds, heat resistant formulation, etc., experiments	3125
steel dealers, technological and competitive problems—		Sealing of hydraulic units with metallic slot rings	13768
hearing	16227	Seamen, <i>see</i> Sailors.	
report	17348	Seaplanes:	
views	17348	equipped with hydro-ski allighting gear and stepless hull, hydrodynamic investigation	16808
Scrapie:		hulls—	
infection of sheep, general information	17196	beam loading effect on water impact loads and motions	3919
symptoms in sheep	11603	configuration incorporating high wing loading, increase in angle of dead rise effect on hydrodynamic qualities	1057
Screen chamber for dairy barn flushings	8330	hydro-ski landing motions, effect of mounting on shock absorbers	6728
Screening tests:		landing in waves, hydro-skis as load-alleviation devices, tank investigation	1066
evaluation of EST for predicting AFQT performance	5470	loads and hull pressures, estimation of frequencies and intensities for routine operations	1071
glaucoma, case finding programs conducted prior to Feb. 1957	10569	multijet—	
substances screened for ability to reduce thermal resistance of bacterial spores	17186	having low transonic drag rise, aerodynamic and hydrodynamic investigation	13412
Screens:		model of modified nose-inlet, hydrodynamic investigation	16822
irrigation wells	5542	supersonic, with engines exhausting from step, hydrodynamic investigation	16862
standard of trade	9679	planing surfaces, study including effects of cross section and plan form	949
errata	17274	take-off resistance, effect of waves, investigation	13421
quality of screen important in silk screen process for printed circuits	16982	transonic, design having planing-tail hull, hydrodynamic characteristics	16826
removing distortions in ducted flows at high subsonic speeds	6750	Seaports, <i>see</i> Ports.	
Screven, Thomas F., relief	4502, 15609, 16039	Searching of unfiled Library of Congress printed card orders in National union catalog	9324
Screw threads, standards for Federal service, errata	8098	Searles Lake, core logs, geologic investigations	9115
Screwworm, eradication, questions and answers	3039	Seas, <i>see</i> Ocean.	
Scrub barrens of Central Asia	3670	Seasoning of wood, <i>see</i> Wood.	
Scrub Oaks Mine, radioactive rare-earth deposit	6287	SEATO, <i>see</i> Southeast Asia Treaty Organization.	
Scrubbers, liquid scrubbing process for removing sulfur dioxide from flue gases, cost estimates	9352	Seattle, Wash.:	
SCS, <i>see</i> Soil Conservation Service.		electric facilities of area, map	16338
Sculpture and statuary:		occupational wage survey—	
Charles M. Russell statue for Capitol rotunda, acceptance proceedings	12331A	departmental edition	881
Florence R. Sabin statue for Capitol rotunda, acceptance proceedings	9938	document edition	800
George Washington statue for presentation to Uruguay—		salt water research laboratory, construction, report	14497
law	15710	standard metropolitan area, housing inventory, characteristics, 1956	5710
reports	15874, 16168	Seattle, World Science-Pan Pacific Exposition:	
Scurry County, Tex., Horseshoe Atoll, geology	16469	change name—	
Sea, <i>see</i> Ocean.		hearings	12311
Sea, Coach Transatlantic Lines, Inc., ship purchase contract, hearing	316	law	15627
Sea cucumbers, use as food	12683	reports	14204, 14262, 14470, 15866
Sea food:		views	14204
consumer education program, fish and seafood parade, Oct. 19-25, 1959	14662		
exemption under fair labor standards act	8268		
Sea lampreys, <i>see</i> Lampreys.			

# INDEX, 1959

Entry	Entry
Seaweeds: and their uses as natural and derived products..... 9040 ground, powdered, or granulated, free importation, report..... 15894 utilization in Communist China..... 16551 Sebastes marinus, see Rosefish. SEC, see Securities and Exchange Commission. Secondary education: counselors and guidance workers, training institute program, analysis..... 370 government publications covering facts, list..... 5376 guidance programs, evaluation criteria, methods for using..... 369 technical, Korean People's Republic..... 3666 work-experience programs to help youth stay in school..... 16654 Secondary schools, see High schools. Secrecy and science, hearing..... 16215 Secret Service: retirement of certain members— increase, report..... 16164 make law applicable to former members and their widows, widowers, and children— hearings..... 8727 report..... 8637 Secretaries: appointment by district judges, amend U.S. code— law..... 14073 reports..... 7412, 14517 government publications, list..... 15158 see also for departmental secretaries, names of departments or names of secretaries. Securities: act of 1933— amend, hearings..... 14554 regulation S-X..... 1164 releases, SEC..... 2929, 11473 publications, price list..... 6905 redeemable, list..... 10109 rules and regulations of SEC under securities act..... 17839 traded on exchange..... 2919, 8212, 11464 transactions and holdings..... 2918, 11463 see also National securities exchanges. Securities and Exchange Commission: appropriations, 1960, hearings..... 5914 corporate reorganization releases..... 2922, 11467 functions and activities investigation— report..... 1533 views..... 1533 general rules and regulations under act of 1934..... 15181 general rules and regulations under investment company act of 1940..... 4049 general rules and regulations under securities act of 1933..... 17839 legislation, hearings..... 14554 litigation releases..... 2926, 11471 member, nomination of Earl F. Hastings, hearing..... 7609 message for investors..... 17071 news digest..... 2928, 11472 releases..... 2927 report 1958— departmental edition..... 2122 document edition..... 1525 statistical bulletin..... 2920, 11465 statistical series..... 2931, 11475 work..... 2123 Securities exchanges: act of 1934— amend, hearings..... 14554 general rules and regulations..... 15181 regulation S-X..... 1164 Securities exchanges—Continued act of 1934—continued releases, SEC..... 2930, 11474 code of Federal regulations..... 7719 Securities investigators, examination announcement..... 5752 Security, see industrial security— Military security—National defense—National security. Sedimentary rocks, Colorado Plateau region..... 16457 Sedimentation and deposition: fluvial sediment in Whitehead, watershed and reservoirs, Nebr., Apr. 1955–Sept. 1956..... 515 Lake Barcroft, Fairfax County, Va..... 17083 Middle River drainage basin of Shenandoah Valley, studies..... 6295 sediment transportation, Middle Loup River at Dunning, Nebr., suspended sediment sampling in laboratory wave action..... 17385 yield, role of steps on loess-mantled slopes of southern Nebraska, western Iowa, northwestern Missouri..... 513 Seed-cotton input control for gins..... 9617 Seed crops, see Crops. Seeding, see Forest planting—Sowing. Seedlings, production, articles..... 12757 see Pines. Seeds: Douglas-fir small trap performance, emergency programs, State participation, report..... 12190 Federal supply schedule..... 4839, 16368 field, acreage, yield, etc., U.S. crop years 1939–56..... 5492–93 foreign agriculture circulars..... 2643 foreign trade prospects..... 3522 forest tree crop poor in Lake States, 1958..... 14731 Industry assisted by Government through research, crop and outlook reports etc. (address)..... 11617 moisture content, oven methods for precise measurement..... 4184 production areas in Lake States, establishment and management, guidelines..... 14724 shattered, suction reclaimer..... 7033 sugar maple and yellow birch dispersal from hardwoods, Upper Peninsula of Michigan..... 14727 trees and shrubs, dealers directory, yellow-poplar, variations in quality..... 9104 see also Oilseeds—also names of plants. Seepage, measuring from irrigation channels..... 15331 Seeto, Kum lung, relief..... 9948, 12074, 13929 Seeto, Kum Wo, relief..... 9948, 12074, 13929 Segregation, see Race problems. Segula Island, geology..... 9114 Seismic waves, see Tsunami (tidal wave). Seismology, see Earthquakes. Select Committee on National Water Resources, Senate, see National Water Resources, Select Committee on Senate. Selected United States Government publications..... 2993, 11435 Selective service, see Conscription. Selective Service System: appropriations, 1960, hearings..... 5914 poster..... 5400 report, 1958..... 4050 selective service regulations, 2934, 11478 Selenium: crystals, measurements, tests, and equipment, catalog of technical reports, 1935–58..... 5664	

# JANUARY-DECEMBER

	Entry
<b>Selenium—Continued</b>	
geology, etc., bibliography.....	4921
production, etc., 1958.....	2004, 6658
report.....	2834
volcanic rocks, western United States and Hawaiian Islands.....	12764A
Self-employment, <i>see</i> Employment.	
Self-service food stores, <i>see</i> Stores.	
Self-training unit on child-labor laws for youth placement workers.....	16652
Selling, <i>see</i> Mail order business.	
Markets and marketing—Sales—Salesmen and salesmanship.....	
Selma, N.C., explosion of munitions truck, damage claim.....	5826, 11941, 12362
Semiconductor, <i>see</i> Electric conductors.	
Semitrailer, <i>see</i> Trailers.	
Senate:	
action on Hoover Commission reports, report.....	6004
appropriations, 1959, supplemental, proposal.....	12334
appropriations, 1960, legislative, hearings.....	8885
budget, 1960, amendments.....	8769
calendar, executive.....	2464, 10996
calendar of business.....	2463, 10995
historical documents etc., preservation, special committee to consider methods, report.....	4708
Journal of executive proceedings—	
63d Cong., 2d sess.....	12325
64th Cong., 1st sess.....	12326
65th Cong., special and 1st session.....	12327
65th Cong., 2d sess.....	15986
67th Cong., 4th sess.....	12328
68th Cong., 1st sess.....	12329
68th Cong., 2d sess.....	15985
65th Cong., 2d sess.....	9935-36, 12330
manual.....	4669
Members, assistance in parliamentary activities, etc., reports.....	3348, 3361
payrolls, report detailed information on quarterly basis, report.....	10003
portraits of 5 outstanding Senators, proceedings at unveiling.....	5942
rules, Senate manual.....	4669
secretary, report, 1958.....	3342
Sergeant at Arms, additional messengers, report.....	7569
telephone directory, 1959.....	4665
Senate bills.....	1561, 3338, 4666, 5941, 7494, 9937, 12331, 14363, 8766
Senate documents.....	324-328, 3339-45, 4667-69, 5942-45, 7495-7501, 8767-71, 9938-43, 12332-341, 14364-365, 15987-998
Senate executive documents.....	12342-345
Senate executive reports.....	12346
Senate manual, <i>see</i> Senate.	
Senate reports:	
private bills.....	4670-99, 5946-88, 7502-41, 8772-8806, 9944-79, 12347-392, 14366-432, 15990-16041
public bills.....	329, 1565, 3346-81, 4700-32, 5989-6041, 7542-97, 8807-71, 9980-10020, 12393-519, 14433-545, 16042-187, 17346-348
Senators, <i>see</i> Senate.	
Senility and ill-defined conditions, death rates by age, color, and sex.....	15108

	Entry
<b>Sense organs:</b>	
lost sensory motor functions following injury to spinal chord, USSR study.....	3687
receptors exclusion of visual, auditory, vestibular and olfactory at early age, changes in cerebrum, (USSR studies).....	1811
receptors exclusion, USSR method, research on sensory disorders, highlights of progress.....	1771, 17773
sensory and motor nervous, cytochemistry of thiol groups, USSR study.....	17654
Sentinel Hill, core test in area.....	7852
Separation (military):	
facts you should know upon relief from active duty or discharge.....	5614
Separation processes:	
ion exchange of metals by single-pass method.....	1386
nitrate ignition.....	5645
thermal, gas mixtures by adsorption method, theory, USSR study.....	13276
zirconium-hafnium.....	16723
Septic tanks, practice manual, addendum.....	17036
Sequoia National Park, general information.....	16969
Sereika, Stasya, relief.....	4685, 8586, 11897
Sergeant at Arms, <i>see</i> Senate.	
Serial set (congressional).....	278-281, 3256-58, 4420, 5773-74, 7282-83, 8507-10, 9755-57, 11877-889, 15558, 17312
Serials:	
copyrighted, catalog of copyright entries.....	8911, 17363
National Bureau of Standards Library.....	3952
new serial titles.....	2774, 11315
classified subject arrangement.....	3832, 11314
2d series, 1958 cumulation.....	9329
Serological tests, <i>see</i> Syphilis.	
Serpentine, asbestos deposits, reconnaissance in northern California.....	8027
Serra, Junipero, memorial exercises in Statuary Hall, print, report.....	15907
Serranid fishes, <i>see</i> Fish and fisheries.	
Serrano, Calif., railroad accident.....	14792
Serum and serumtherapy:	
aortotoxic serum injections role in localization of pathological processes.....	819
blood serum and properdin system, changes in bactericidal activity under effect of cortisone, USSR studies.....	6438
blood serum proteins, changes under action of X-rays against background of varied nutrition.....	12960
protein composition of serum following damage caused by heavy salts.....	6594
protein serum, restoration in irradiated dogs after hemorrhage, USSR study.....	6591
Servants:	
collectivization and socialization of domestic labor.....	569
social security, good news for household workers.....	3994
social security tax, household employer's guide.....	534

# INDEX, 1959

	Entry		Entry
Service and regulatory announce- ments:		Shadow Mountain National Recrea- tion Area, general informa- tion	5334
Agricultural Marketing Service, 3030-31, 5502, 11586, 13701, 15274-275		Shaft sinking, methods and costs, Bargen Shaft, Bear Creek Min- ing Co., Utah County, Utah	6650
Agricultural Research Service	1288	Shafter, control, modifications, Fort Peck Dam, tunnel 4, Missouri River, Mont.	16272
Food and Drug Administration	4867	Shale:	
Service clubs, PACAF basic bibli- ography	1357	black—	
Service cooperatives, see Farmers' co- operative organizations.		haydite raw material in Kings River, Sutton, and Laving areas, Alaska	16456
Service craft, see Ships.		uranium-bearing—	
Service schools, see Military educa- tion.		investigation of relationships between selected minerals, trace elements and organic constituents	4319
Servicemen, see Armed Forces.		marine in U.S., geology and occurrence, bibliography	510
Servicemen's readjustment act of 1944, see Veterans.		mineralogy and petrography, analyses	4319-20
Servomechanisms:		uranium content, geochemistry	16465
hot gas, research study	11691	Chattanooga, uranium source	17258
hydraulic servo drive, increasing stability, speed, and efficiency	13759	Pierre, Sharon Springs member—	
Sesame, production, etc.	91	Kansas and Colorado, radioac- tivity and uranium content	4922
Settees, wood, general office, Federal standard	16352	South Dakota and Northeastern Nebraska, uranium content	10190
Settlement of land, see Land.		see also Oil shale.	
Settling of particles from aerosol stream on obstacle, USSR	3697	Shale oil:	
Senn, Pak Jae, see Pak Jae Seun.		European patents and classifica- tion, 1946-56, index	14989
Sevelk, Jan F., relief	12078, 13939	United Kingdom patents, 1946-56, index	1982
Seven keys to better, faster typing	17299	Shanghai, China, industries, condi- tion and problems	589
Sewering by tearing and breaking	5369	Shanai-Province, China, Ta-tung Ba- sin, sketches of land forms	12837
Sewage:		Shantung Province, China:	
and industrial waste pumping sta- tions, engineering manual	881	budgets	17555
disposal facilities for Indian homes, etc., PHS to supply—		economic development and state plan fulfillment in 1957, sta- tistical bureau's report	9158
hearings	8738	national economic plan, 1959	16375
law	12007	people's communes—	
reports	7578, 12117	agricultural, 1958 supplementary directives for distribution of work	9157
disposal problems of Washington metropolitan area, staff report	843	production control regulations	6387
municipal treatment needs	2113	report, 1957-59	13199
pipe requirements for mains, sew- age utilities	15454	water conservation plan, 1959-62, work and budget reports of Pro- vincial People's Council	13124
plants, maintenance, operation, etc. Air Force manual	3097	Shape changes of internal surfaces in extrusion	185
poultry processors, irrigation as low cost method of disposal	5545	Shares of stocks, see Stocks.	
sanitary and industrial-waste sew- ers, engineering manual	379	Sharks:	
treatment works construction—		dogfish, bounties to control, depre- dations, report	16044
contract awards	5386, 13566	dogfish, investigate methods of con- trol or eradication, hearings	317, 10047
engineering and design manual	12614, 17379	information for protection of flyers landing in shark infested wa- ters	15249
increase grants—		pelagic, distribution, etc.	3496
hearings	7484, 12567	Sharon Springs member of Pierre shale, see Shale.	
reports	7381, 8664, 14528	Shear (mechanics):	
views	7381, 14528	deformation, effects in core of flat rectangular sandwich panel	6245
urban, radioactive potassium con- tent, USSR study	1930	Shears, and scissors, report on escape clause investigation	5441
Sewalls Pt., Va., see Hampton Roads, Va.		Sheep:	
Seward Peninsula:		direct shipments into selected North Central States by State of origin, 1941-57	3080
Cape Mountain district, tin-placer sampling methods and results	6649	ewe feeder, and lamb brooder, com- bination, farm building plan	17203
Ear Mountain area, tin placer and lode investigations	16720	North Central States, shipments, 1958	9576
lode-tin mining	1985	on feed, Jan. 1, 1959	1276
Sewer pipe, see Pipe and pipe fittings.		scabers, eradication, report, 1959	13707
Sewerage, see Sewage.			
Sewing:			
home practices and clothing prob- lems	14622		
home, simplified clothing construc- tion	5534		
stitches, seams, and stitchings, Federal standard	16364		
Shad:			
American, Atlantic Coast migra- tions	3499		
American, Alosa sapidissima, sta- tistical analysis in classifying races	7746		
Hudson and Connecticut Rivers, effect of New Jersey-New York pound net-catch on runs	3500		



# JANUARY-DECEMBER

	Entry		Entry
Sheep—Continued		Shielding—Continued	
scrapie infection, general information	17196	stagnation surfaces of infinite catalytic activity by air injection in hypersonic flight	13450
scrapie symptoms	11603	see also Radiation.	
self-feeder, farm building plan	15326	Shifting industrial and occupational composition of work force during next ten years (address)	13298
three-way cutting gates farm building plan	17205	Shifting of null point of SN-3 gravimeter as result of inclination, USSR observations	3689
Sheep ranges, see Range lands.		Shih-chien (periodical):	13182
Sheepscot River, estuary, ecology	16391	articles	
Sheet material, high-strength, crack propagation tests	17804	Shih-chien Chih-shih (periodical):	6374
Sheet metal:		articles	
bend test to measure uniformity of ductility	4004	Shih-Ping Wang:	
fracture-transition studies, simple laboratory bulge tests and weldment-performance evaluation	17803	consultation with staff of un-American Activities Committee	8756
see also names of metals.		print additional copies, report	14284
Sheet metal workers, examination announcement	5735	Shins, flexor reflex in rabbits following general irradiation with 10 R dose of X-rays, change in latent period, USSR studies	7940
Sheet Metal Workers International Association, labor-management relations, improper activities investigation, hearings	3387A	Ship mortgage insurance, see Federal ship mortgage insurance.	
Shellfish:		Ship Structure Committee:	
consumption in public eating and drinking places	10138	annual report, 1959	10576
cooking, publications available from Superintendent of Documents	10558	serial no. SSC	2124-25, 5402, 13571-573, 15182, 17840-842
industry, sanitary control manual	8194	technical progress report	10577
Pacific Coast, chemical composition research	16378	Shipbuilding:	
shippers, list	2894, 11436	atomic program, hearings	7473
Shellhorn, Charles W., relief	8564, 13947, 14395	construction reserve funds, extend time for commitment	12552
Shells (aircraft):		law	15620
buckling, structural stability handbook	16927	reports	10018, 14294
durability evaluation of transpiration-cooled turbine blades fabricated of poroloy wire cloth	9364	design of coastal small-harbor passenger-cargo ships	3658
Shells (atomic):		federally financed, deposit of funds in escrow to provide for payment of insurance	
spherical, elastic-plastic response to internal blast loading	13528	law	12013
Shelters (air raid), see Air raid shelters.		reports	12145, 12398
Shelters (military science):		fishing vessels, construction assistance program	
radiological, countermeasure system components and evaluation of operational procedures	17270	hearings	14347
Shem Creek:		reports	12249, 15803, 16079
channel improvement, engineer report		views	16079
departmental edition	4788	Ho-Ping No. 28, China's sea-going ship record in construction, etc	3672
document edition	4443	merchant ships—	
Shenandoah Valley, Middle River drainage basin, sedimentary studies	6295	nuclear energy applications (remarks)	8992
Shensi Province, China:		oceangoing, built in United States and other countries, 1958	8023
northern, geomorphological problems of Wu-ting Ho Valley	10223	oceangoing, contracts, etc. (address)	8993
northern, natural regions of Wu-ting Ho Valley	14795	naval vessels, authorize construction	
Sherron, Albert E., relief	8568	hearings	7606
Shetler, Gertrude E., relief	4527, 8777, 9764	law	7312
Shielding:		reports	4587, 5840, 6026
Army package power reactor shielding experiments	9658	notch-toughness properties of ship-plate steel as evaluated by van der Veen notched slow-bend test	17840
effectiveness of soils and concrete against neutron beams	9657	nuclear shipbuilding safety (remarks)	8988
gamma, design for primary coolant sources using IBM type 650 computer	7139	Pacific Coast:	
individual protection during work with uncovered radioactive substances, USSR study	13265	eliminate cost differential applying to bids, etc., hearings	15954
OMR maritime study program	5646	role of Government in promotion of industry (address)	7264
reactor, engineering study	1382	shipyards (address)	7263
		wage chronology, 1954-58	10405
		private financing of construction—	
		hearing	7629
		law	12009
		reports	7555, 12140
		program for Danish Navy, mutual defense assistance agreement	10805

# INDEX, 1959

	Entry		Entry
Shipbuilding—Continued		Shipping—Continued	
subsidies granted by foreign countries to their shipping industries	912	various maritime matters (re-marks)	8990
wood, basic technology manual, errata	6929	see also Transportation—Water carriers.	
wood, techniques and practices applicable to preservation and storage, manual, errata	6929	Shipping containers, see Containers.	
Shipbuilding Industry, Scientific-Technical Association (USSR), meeting of members, results	1805	Shippingport, Pa., pressurized water reactor, engineering materials list	4326
Shipments:		Ships:	
commercial, export licensing regulations, etc.	6215	activation manual	2079
marking, military standard	1583	American, fees for consular services, authorize, hearings	12534
preparing shipments to—		CI-SAY-1 vessels, resell to Republic of China, report	15838
Afghanistan	3539	Canadian, operate to and within Alaska—	
Australia	3535	law	12012
Brazil	1659	reports	12138
British East Africa	9082	cargo and miscellaneous vessels, Coast Guard rules and regulations	8490
Burma	4886	cargo handling equipment, evaluation, shipboard cranes versus burtoning gear	5183
Chile	14702	cargo, use, standardization, etc., of cargo containers, U.S. and western Europe, survey and analysis	3836
Colombia	9073	Coast Guard to sell supplies and furnish services for reasonable price—	
Cuba	7798	law	14014
Ghana	12713	reports	12166
Guatemala	10157	coastal small-harbor passenger-cargo, design	3658
Jordan	14698	floating plant list, Engineers Corps manual	16266
Liberia	3544	foreign naval vessels, furnish supplies and services—	
Morocco	3538	hearing	12525
Paraguay	6228	law	11956
Philippines	1658	reports	4586, 8518
Switzerland	3542	foreign vessels, coastwise transportation of lumber, Savannah, Ga. to Puerto Rico, hearings—	314
United Kingdom	4880	fractured plates, fracture appearance of impact specimens—	13573
Viet-Nam	14703	from sails to atomic power (address)	4817
preservation, packaging, etc., specifications, list	5602	Great Lakes vessels, ocean use—	
selected manufactured products, value	4349	hearing	12552
see also names of articles shipped.		law	15680
Shipping:		reports	9983, 12150, 15829
act of 1916, amend, report	12252	ILO recommendations regarding medicine chests, radio medical advice, seamen, etc.	7339
American, future defense and economic position (report)	12647	inspection, Marine Inspection Bureau of People's Republic of China	14802
code of Federal regulations	3473, 4823, 6158, 14636	lifesaving and other safety equipment, Coast Guard to prescribe regulations—	
domestic problems, hearings	314	law	15624
dry cargo service and area report, shipping companies, etc.	6642, 14983	reports	12478, 14295
Florida citrus fruit to Europe, tests	7060	loan to—	
foreign ports, code classification	3189	China, agreement	8239
foreign trade reports	2376, 10907	Federal Republic of Germany, agreement	1206
foreign vessels to transport lumber, Savannah, Ga. to Puerto Rico, hearings	314	Spain, agreement	16211
Great Lakes, effect of St. Lawrence Seaway Development (address)	17406	Thailand, agreement	13618
industry, Port of Buffalo and St. Lawrence Seaway trade (remarks)	8989	Turkey, agreement	1201
industry, role of Government in promoting (address)	7264	measurement, customs regulations, revised pages	1576, 3402
Louisiana strawberries	15320	merchant and passenger vessels, load lines, regulations	1502
Navy ordnance, handbook	6877	merchant vessels—	
nuclear science and peaceful commerce (remarks)	8992	atomic applications, etc. in construction, 1958 status, etc.	13795
radioactive materials at NRTS	13815	fleet of world, seagoing steam and motor 1,000 gross ton and over	8022
subsidies granted by foreign countries to their shipping industries	912	navigation safety, human factor problems	10416
subsidized operators, procedures for determining foreign-flag affiliations of applicants—		nuclear and conventional, economics	5654
hearings	15951		
report	14210		
U.S. corporations having alien directors, modify citizenship requirements—			
law	15692		
reports	14213, 14505		
use of rivers in USSR, ways and means of developing	9239		

	Entry
<b>Ships—Continued</b>	
<b>merchant vessels—continued</b>	
oceangoing, built in United States and other countries, 1958	8023
propulsion, feasibility of using closed cycle boiling water reactor, investigation	5642-43
United States, 1959—	
departmental edition	7652, 12572
document edition	7326, 12039
supplement, ownership changes	2481, 11013
Navy, deaths caused by electric shocks	9484
Navy supply, extending storage life of cabbage, celery, lettuce and tomatoes	11631
nuclear powered—	
merchant, 1958 symposium proceedings	4330
N.S. Savannah, world's first nuclear powered merchant ship, description	10100
nuclear powered, and merchant marine (addresses)	8992-93
probabilities (paper)	13797
ocean weather ships on North Atlantic Ocean, agreement with Netherlands	2152
oceanic sounding reports, application in correlation of bathymetric data	3617
oceanographic research, need in U.S., hearings	17336
Onassis companies trade-out and build activities, hearings	319
passenger vessels, rules and regulations, code of Federal regulations	8491
practical damage control, Ships Bureau manual	4051
registry, readmission of John F. Drews	15577, 15781, 16041
repairing, proposed safety and health regulations	10401
service craft, Ships Bureau manual	5404
small craft, loan to, China, agreement	17106
superliner construction and sale by Commerce Dept., hearing	316
transportation documents, use of short form, amend U.S. Code, hearings	314
U.S. flag ships, seamen earnings and employment—	
departmental edition	3812
document edition	3268
undocumented, numbering, rules and regulations	11862
vessel entrances and clearances, U.S. customs area	8463
vessels navigating Great Lakes to have pilots—	
hearings	12301
report	12251
see also Merchant marine—Shipbuilding—Warships—also names of ships.	
Ships (warships):	
loan to Greece, agreement	17865
Ships Bureau:	
journal	2936, 11480
manual, changes	6928
manual, chapters	2126, 4051, 5403-4
translation	1165
Ship's serviceman, see Navy.	
Shipstructure, see Shipbuilding.	
Shipyards, straight-time hourly earnings	11289
see also names of shipyards or places where located.	
Shock (biological):	
anaphylactic, effect or novoemblemic injections, USSR study	6493

	Entry
<b>Shock (mechanical):</b>	
shock-positioning method of ram-jet engine control, study	2038
spectra, effect of dynamic reaction of structures	5344
transonic compressors, magnitude of shock losses, analysis	18405
Shock absorbers, use as hydro-ski mounts for reduction of landing impacts	6728
Shock tubes, heat-transfer measurements on inner surface of cylinder	16892
Shock waves:	
elliptical cone shaped, supersonic perfect-gas flow calculations	15077
in helium, hydrodynamic calculations	3986
noise from airplanes in level flight at Mach numbers to 1.4 and altitudes to 45,000 feet, ground measurements	16588
noise problem of supersonic aircraft in steady flight	6777
oblique, interaction with laminar boundary layer	5287
spectra, effect of dynamic reaction of structures	5344
spherical, surface roughness effect, structure in monatomic gas	3915
USSR studies	9231
Shoes, see Boots and shoes.	
Shoko Oshiro, see Oshiro Shoko.	
Shooting, hits count, rifle marksman-ship instruction, Army pamphlet	3144
Shoplifting, penalties for willful concealment of goods in D.C. stores, report	7408
Shopping centers, suburban, discrimination against small business concerns, hearings	10056
Shops, see Boiler shops.	
Shore facilities	15126
Short range navigation, see Air navigation.	
Shortening, see Fats.	
Shortleaf pine, see Pine.	
Short range navigation, see Navigation.	
Short-range pressure forecasting using high-speed computers, USSR	3648
Short-term human feeding studies of foods sterilized by gamma radiation and stored temperature	5633
Shorthand reporters, see Reporters and reporting.	
Shoshone Indians:	
lands in trust for members of Fort McDermitt Paiute and Shoshone tribe, report	15811
lands on Wind River Reservation, place in trust status, report	14443
Shot firing, see Blasting.	
Shoup, David M., nomination, hearing	16193
Show receptors, gel-coated glass-fiber reinforced polyester resin, standard of trade	8432
Shreveport, La., population, special census	5680
Shrimps:	
bait industry of Gulf of Mexico	10133
biological studies, reference list	9047
conservation, convention with Cuba, text	12344, 12344
double-rig trawling in Gulf of Mexico	434
explorations—	
from Shumagin Islands to Unalaska, Alaska, summer and fall, 1957	9037
in central Alaska waters, July-Aug. 1958	16373
off southeastern coast of United States, 1956-58	16372

# INDEX, 1959

Entry	Entry
Shrimps—Continued	Sight reduction tables for air navigation..... 1724, 4942
industry, United States, survey..... 1642, 16390	Sightseeing business, <i>see</i> Business.
landings..... 2628, 11186	Signal Corps, Army:
annual summary, 1958..... 12678	career..... 5405
pink, frozen storage life 15 months..... 12683	engineering report..... 13577
processed, bacterial content study..... 430	technical memorandum..... 13579
white, <i>Penaeus setiferus</i> , morphology..... 4855	Signal generators, VOR test, CAA specification..... 231
Shrinkage losses and grade changes in wheat stored at Kansas bin sites..... 11571	Signal lights, <i>see</i> Lights and lighting.
Shrubs:	Signal systems, commercial central station protective signaling industry, outlook for 1959 and review of 1958..... 5670
Albania, description, etc..... 856	Signalmen, standard aircraft taxi signals (poster)..... 11557
nursery products, production and sales, 1957 and 1958..... 8286	Signals:
planting and maintenance, manual, seeds and planting stock, commercial dealers, directory..... 12757	detectable in turbojet engine as stall warnings..... 987
Shu Tung, diary as commune member..... 17539	low voltage DC, algebraic summing with electrolytic capacitors..... 10539
Shut-In's Day, designation, report..... 16147	radioactive self-luminous aids to night military activity, recent advances..... 5347
Sian, China, report on major work done since 1957, under leadership of Communist Party..... 3677	standard aircraft taxi, for pilots and signalmen (poster)..... 11557
Siberia:	systems, ink blot method use on persons of different temperament to determine characteristic features, USSR study..... 14958
diamond-bearing province, geology, east coast, sailing directions, change..... 3610	train control, statistics..... 549
eastern..... 14953	<i>see also</i> Air raids—Fog signals—Radio signals—Warning systems.
chemicals industry prospects..... 6602	Silence isn't golden when it masks pre-invasive or early invasive cancer..... 17056
conference on subterranean waters and engineering geology..... 6602	Siletz Indians:
results, problems, and further expansion of hydrogeology and engineering geology..... 6602	per capita distribution of funds arising from judgment..... 15625
north, oil and gas bearing ability investigation..... 17641	law..... 8838, 14248
southeast coast, sailing directions, changes..... 9134	Silica:
western..... 10266	Pacific Northwest, Mines Bureau to explore resources..... 15021-22
distribution of perennially frozen rocks..... 1918	sands, mining and processing at Overton, Nev., by Simplot Silica Products, Inc..... 13317
weather, expected general characteristics, Apr. 1958..... 1921	Silicates, crystalline, cadmium and lead metasilicates, heat and free energy of formation data..... 8049
Sick:	Silicon:
medical statistics, acute conditions, United States, July 1957-June 1958..... 4021	alloys, aluminum, structure..... 16987
publications, price list..... 15162	aluminum-silicon eutectic..... 15131
Sick leave, <i>see</i> Leave of absence.	solidification..... 16989
Sicolo, Angela, relief..... 14129	crystals, measurements, tests, and equipment, catalog of technical reports, 1935-58..... 5664
Sideslip (aircraft):	photocells as converters of solar radiation, investigation..... 13758
moderate, on flow fields near 45° swept-wing-fuselage combination at low speed, experimental investigation of effects..... 16856	Silicon carbide, metal and self-bonded, formation method..... 4271
triangular-wing-body combinations, experimental investigation..... 6687	Silk:
Sidewash (aircraft):	manufacture, earnings, summary release..... 3817
behind pointed-tip wings, analysis..... 13383	spun yarn, suspension of duty..... 14082
behind wings performing various motions at supersonic speeds, estimation tables..... 8075	law..... 14253, 14522
Siding, asphalt and tar, facts for industry..... 2371, 10902	Silk, Marie, relief..... 4683
Sidzikauskas, Vaclovas, consultation with staff of Un-American Activities Committee..... 17343	Sillimanite:
Siedlecka, Stanislaw, relief..... 7507, 8577, 11890	alumosilicate, slag, mullite and corundum dissolving mechanism..... 1781
Sierra Nevada, central foothills, annual legumes growth and herbage production, etc..... 8554	bibliography..... 10188
Sight:	Silmon, Jack, relief..... 4510, 5979, 7300
area-intensity relationship at threshold for stimulus durations in human fovea..... 10419	Silos:
sensitivity characteristics of eye affecting photometric measurements..... 10538	bunker—
visual research and tests, 1932-58, catalog of technical reports..... 4341	farm building plan..... 4188, 11643, 11645
	unloader performances, test results..... 45
	Silurian period, bryozoan genus Trematopora, revision..... 17846



# JANUARY-DECEMBER

	Entry		Entry
Silver:		Single-phase transfer of liquefied	
and alloys, study of effect of gases		gases.....	2056
on density of layer of potassium ethyl xanthogenate on surface by means of radioactive isotopes, USSR study of theory.....	1744	Sinkiang Province, China:	
centennial of discovery in U.S., commemorative medal—		A-erh-tai Shan region, plant resources.....	12884
law.....	8514	leap forward in trade and finance in Autonomous Region, speech.....	12879
report.....	7571	work report of Uighur Autonomous Region People's Council.....	13203
exports and imports, summary, 1958.....	5712	Sintering, fundamentals.....	17260
mine production—		Sinusitis, sinus infection, description, etc.....	10565
monthly report.....	2815, 11360	Sioux Indians:	
Pend Oreille and Stevens Counties, 1902-56.....	1986	Standing Rock tribe, donated Federal lands, place in trust status—	
preliminary annual figures, 1958.....	5190	law.....	15615
minerals yearbook chapter.....	17715	reports.....	14263, 16046
production and consumption, report, 1957.....	8055	SIPRE, see Snow, Ice, and Permafrost Research Establishment.	
production, etc., 1958.....	13353	SIR series.....	5719
slow neutron resonances.....	17249	Sirups, Federal supply schedule.....	3486, 12675
United States movements.....	2377, 10908	see also Corn sirup.	
Silver (money):		Siskiyou County, Calif., geology and ground-water features of Scott Valley.....	3606
Mint Bureau report, 1957.....	8055	Sisters of the Visitation, Georgetown, D.C.:	
Silver Bow County, Mont., exploration drilling in Boulder batholith, 1954.....	11734	corporate powers, amend act of 1828—	
Silver Creek, ground water resources of area.....	12774	law.....	8517
Silver oxide, zinc alkaline storage batteries, effect of float and normal charges on capacity and related characteristics.....	2081	reports.....	4610, 7592
Silverware, industry outlook for 1959 and review of 1958.....	1410	Site indexes:	
Silviculture, see Forests and forestry.		eastern cottonwood.....	7809
Simeonian, Arshalous, relief.....	12376, 14143	old-field slash pine plantations, site index curves.....	10182
Simians, biochemistry, comparative data of humans and simians.....	808	Pacific Northwest, Douglas-fir.....	492
Similarity rules for second-order subsonic and supersonic flow.....	8065	upland oak in Southeast.....	10180
Simmons, Jean K., relief.....	12092	Sites:	
Simonov, Frol M., relief.....	12063, 15592, 16024	curves for red alder.....	1690
Simple marine vivarium.....	6101	old-field for conifers and hardwoods, comparison.....	477
Simplification, work, training techniques and materials.....	17887	Sitka Magnetic Observatory, magnetograms and hourly values.....	4392
Simplified practice recommendations.....	201, 4346, 9700	Sitka spruce, see Spruce.	
Simplot Silica Products, Inc., mining and processing silica sands.....	13317	Six keys to evaluating extension work.....	1320
Simpson, Cape, test wells in area.....	6293	Skagerrak, northern and eastern shores, sailing directions.....	14775
Simpson, Sidney E., memorial services.....	13908	Skeleton, changes following radioactive strontium and yttrium irradiation, USSR study.....	14924
Simulation study of wingless missile.....	6690	Sketches of land forms in Ta-tung Basin in northern Shansi.....	12837
Simulation tests of tactical airway system.....	7698	Skill and the future (address).....	1965
Simulators:		Skilled laborers, see Labor.	
analog, carrier approach speeds.....	16757	Skilled trades, see Occupations.	
ATC, preliminary report on simulation of proposed procedures for civil jet aircraft.....	4807	Skills, manpower, and American future (address).....	16649
atmospheric entry of ballistic missiles.....	9360, 16763	Skin:	
computers, principles.....	5352	cancer.....	10566
hydrogen peroxide hot-jet simulator for wind-tunnel tests of turbojet-exit models.....	5262	conditioned galvanic responses to subthreshold and suprathreshold sound stimulation, USSR.....	1774
moving-cockpit, investigation of minimum tolerable longitudinal maneuvering stability.....	16875	Intradermal, resorption of sodium-24 in rheumatism, USSR studies.....	7941
target, airborne, use in optical-sight tracking studies.....	955	irradiation by radioactive phosphorus, effect of antihistaminic and sedative preparations, USSR studies.....	6447
see also Aircraft simulators—Flight simulators.		surface, problem of utilizing fibrin films after irradiation, USSR.....	1867
Singapore:		Skin diseases, aminaxine as cause, USSR study.....	14848
economy, basic data.....	454	Skin friction (aircraft):	
licensing and exchange controls.....	9076	at hypersonic speeds, effects of boundary-layer displacement and leading-edge bluntness, errata.....	8074
sending gift packages to.....	16417	boundary layer effects in laminar hypersonic flows in pressure gradient.....	10498
Single-level continuous sampling, procedures and tables for inspection by attributes.....	14586		

# INDEX, 1959

	Entry		Entry
Skin friction (aircraft)—Continued		Slopes:	
laminar, parameters for flat plate		land treatment measures handbook	12739
at hypersonic speeds in terms		roughened and permeable, labora-	
of free-stream flow properties	16869	tory data on wave run-up	8969
Stanton tube use for measure-		Slot machines, industry, improper	
ments	5286	activities in labor or manage-	
Skins, <i>see</i> Leather, hides and skins.		ment field, investigation, hear-	
Skis (aircraft):		ings	7621, 8892
hydro-skis—		Slots, wing sections, effect on longi-	
effect of mounting on shock ab-		tudinal stability of 45° swept-	
sorbers	6728	back wing-fuselage configura-	
experimental investigation of		tion	6743
wake effects, errata	13431	Slotted line, UHF, CAA specification	240
hydrodynamic characteristics of		Slovakia, Slovak Academy of Sciences,	
submerged lifting surface hav-		activities, functions, etc.	746, 748
ing shape suitable for appli-		Slugs, garden pest, control	3055
cation	17735	Slums:	
hydrodynamic impact-load allevi-		clearance—	
ation	5261	local public agency letters	5451,
hydrodynamic investigation of		6990-93,	11529
Navy seaplane	16808	URA report of operations	6994
load-alleviation devices for land-		Slurries:	
ing seaplane in waves	1066	combustion efficiency of boron-	
Sky, twilight, variations in color,		hydrocarbon in 16-inch ram-jet	
Soviet bloc IGY literature		burner	997
translations	7912	fuels, NACA research	6684
SL series	2633, 11171	Small business, <i>see</i> Business.	
Slag:		Small Business Administration:	
alumosilicate, mullite and corun-		act and other laws, compilation	1512
dum dissolving mechanism	1781	appropriations, 1960—	
antimonous, extraction of tellur-		hearings	7445, 8881
ium and indium	1794	law	11975
fuming plant at Ust'-Kamenogorsk,		reports	8641, 8868, 12131
lead-zinc combine, description		bank-SBA participation loans, guide	
of unit, etc.	1784	for banks	2129
iron blast furnace		business loan authority, increase,	
minerals yearbook chapter	15037	hearings	12283
production maintained in 1958		business loans, policies, etc.	1168, 5407
despite steel slowdown	10449	current programs and activities,	
liquid interaction with gases and		1959, hearing	12570
solid phases, pyrometallurgical		disaster loans for business, for	
processing	4306	homes, types, etc.	4053
shaft lead smelting, metal losses,		loans and grants to State and local	
USSR studies	1795	development companies, etc.,	
Slash, <i>see</i> Forests and forestry.		law, questions and answers	328
Slash pine, <i>see</i> Pine.		management and research assist-	
Slate, sylvanite from Elayey-an-		ance programs for small busi-	
throxolite slate horizons from		ness, general information	10578
Karatau and Dkherangin		organization and operation review,	
Mountains	1778	hearings	9930, 14355
Slats (aircraft):		press releases	2938, 11482
wing sections, leading-edge, effect		publications, lists	6931,
on longitudinal stability of 45°		8215, 10579,	17074
sweptback wing-fuselage con-		report, semiannual	5408, 15186
figuration	6743	revolving fund increase, etc—	
Slaughtering:		law	15731
livestock—		reports	15797, 16100
and poultry, humane method,		services to small firms in selling	
ARS kit	7042	to Government	4052
commercial livestock slaughter		small business, definition of term	
and meat production, monthly		within meaning of act of	
report	10688	1953—	
commercial, meat and lard pro-		hearings	3334
duction, 1958	7011	report	1536
humane methods, law, how it		starting and managing series	4057, 17845
operates	9592	what it is, what it does	8216
statistics	8337	Small Business, Cabinet Committee	
pork on farm	15307	on, <i>see</i> Cabinet Committee on	
Sleep, electro therapy of arterial		Small Business,	
hypertension, USSR study	14875	Small Business, Select Committee on,	
Sleeping car companies, <i>see</i> Pullman		House:	
Company.		creating, report	3315
Slender-body theory based on approxi-		expenses, report	4564
mate solution of transonic flow		hearings	3333-34,
equation	17763	12314-315, 14355-357,	15970
Slide films, <i>see</i> Filmslides.		investigations and studies, final	
Slimes, lead sulfide, experiments in		report	1539
concentrating	5206	reports	1535-39, 3290, 3315, 12210
Slip casting of nuclear fuel elements	17248	Small Business, Select Committee on,	
Slip laws, <i>see</i> Law.		Senate:	
Slippers, <i>see</i> Boots and shoes.		annual report	3351
Slipstream, <i>see</i> Propellers.		hearings, etc.	1571,
Slonaburg, N.Y., railroad accident	3634	3398, 6076, 7647, 8900-10,	
		10056-57, 12569-571, 14579,	
		16227-228.	

# JANUARY-DECEMBER

	Entry
Small Business, Select Committee on, Senate—Continued	
investigations and studies, small and independent business—	
authorization, report.....	3365
expenses, report.....	16089
reports.....	329, 1565, 7574, 12401, 14496, 17348
views.....	17348
Small craft, gale and whole gale warning facilities chart:	
Great Lakes, Huron, Erie & Ontario, 1959.....	8271
Hawaiian Islands.....	13661
Small sawmill enterprise, equipment, techniques, and financial requirements, operation manual for cooperative program use.....	9144
Smallpox:	
description, etc.....	10563
viruses, experimental effect of purified microcide, Ukrainian SSR studies.....	3799
Smallpox vaccine, immunization effectiveness in combination with brucellosis vaccine and NIISI polyvaccine, USSR study.....	14860
Smelting:	
electric-furnace, iron ores of east Texas, progress report.....	2011
electro, in lead-zinc metallurgy.....	652
Krasnouorsk Copper-Smelting Combine, reverberatory material and thermal balances, USSR studies.....	10269
open-hearth and electric-furnace steel, comparative economics in foundry production, USSR.....	3686
titanium electrorefining—cathode studies and deep bath deposition.....	10456
using internally heated cell.....	13373
Smith, Claud C., relief of widow.....	13953, 14137
Smith, Wint:	
contested election—motion by contestee.....	7338, 9811
report.....	8546
Smith, Camp, uranium deposits in area.....	9117
Smith act of 1940, see Conspiracies.	
Smithfield, N.C., explosion of munitions truck, damage claim.....	5826, 11941, 12362
Smithsonian contributions to astrophysics.....	1171, 2132, 8221-22, 15190, 17077-78
Smithsonian Institution:	
appropriations, 1960—	
hearings.....	5911, 8883
law.....	11961
reports.....	5876, 8713, 8814
Board of Regents—	
appointment of Robert V. Fleming—	
law.....	5779
reports.....	4573, 4721
executive committee, report 1958.....	2133
functions, transfer, hearings.....	7618, 10044
Museum of History and Technology, construction progress, report.....	8812
publications, price list.....	5378
report of Secretary, 1958.....	2133
Smithsonian miscellaneous collections.....	1172-73, 4059, 5409, 6934, 8223, 9495, 10582-585, 13587-590, 15191, 17846-847
title page and contents, v. 119.....	10582
title page and contents, v. 135.....	13587
title page and contents, v. 136.....	13588
Smog, see Air pollution.	
Smoke Creek, quaternary geology of area.....	7848

	Entry
Smoot Sand Gravel Corp.: dredging privileges along Mount Vernon Memorial Highway—	
law.....	9773
reports.....	4549, 5895, 7585
Snails, garden pest, control.....	3055
Snake River and Valley:	
native plants, seasonal development and yield on upper plains and their relations to climatic factors.....	115
reservoir, etc., construction at Burns Creek site—	
hearings.....	8895
report.....	12396
views.....	12396
surface water supply of basin.....	14765
Snodgrass, R. E., papers published in honor of 84th birthday.....	9495
Snow:	
accumulation and melt in forests of northern Minnesota, management implications.....	7824
cryoconite of Thule area, research report.....	14603
Federal-State-private cooperative survey—	
Arizona.....	2940, 11484
Colorado, Rio Grande, Platte, and Arkansas drainage basins, snow courses and soil moisture stations, list.....	5411, 11485
Idaho and Columbia basin.....	2941, 11490
Montana and northern Wyoming.....	2942, 11491
Nevada.....	11486
Oregon.....	2943, 11492
Utah.....	2944, 11487
Washington State.....	11488
Wyoming.....	6936, 11489
Greenland research program, 1959.....	14601
high water and thaw water losses, European territory of USSR.....	1885
melt and streamflow at Fraser Experimental Forest 1946-53.....	1159
Montana, measurement data.....	9498
run-off forecasts, western U.S.....	6938, 8227
visco-elastic properties in Greenland ice cap, research report.....	17380
see also Precipitation.	
Snow, Ice, and Permafrost Research Establishment:	
Greenland research program, 1959.....	14601
research reports.....	14603, 16267-268, 17380-381
technical report.....	16269
Snow vehicles, deep snow mobility tests, articulated dynamometer vehicle.....	6977
Snowbrush, pulping by sulphate process.....	10175
Snowplows, snow removal unit field and depot maintenance manual.....	11709
Soap:	
grit, hand, paste, and powder, Federal standard.....	6168
metallic soaps, distribution of acetic acid in benzene solutions.....	5342
Soapstone:	
minerals yearbook chapter.....	15039
production, etc., 1958.....	2002, 13334
Social insurance, programs throughout world, 1958.....	4062
Social insurance adviser, examination announcement.....	5724
Social interaction, see Behavior.	
Social life and customs, see Manners and customs.	
Social psychology, see Psychology.	
Social science analyst, examination announcement.....	3226

# INDEX, 1959

	Entry		Entry
Social sciences:		Social studies, <i>see</i> Social sciences.	
bachelor's degrees, requirements...	3416	Social welfare, <i>see</i> Social work and problems.	
classification, Library of Congress...	9326	Social work and problems:	
Social security:		aged, expert views summary.....	16216
act—		aged, hearings.....	12561
amend—		handbooks for county board members.....	10586
hearings.....	15977	mental health consultations and concepts in public health social work.....	5718
hearings, additional copies, report.....	15908	public welfare, code of Federal regulations.....	6146
law.....	15649	research relating to children, studies in revisor progress.....	8466
reports.....	4576, 15857	services in public assistance, community resource.....	2134
4589, 6027, 14306, 15857		specialist positions, examination announcement.....	1490
amendments of 1958, disability benefits (in Spanish).....	6935	welfare and recreation facilities, special services.....	17897
brief explanation.....	9496	<i>see also</i> Medical social work.	
Federal and State administration implications.....	2135	Social workers:	
State public assistance plans, insert.....	17821	casework performance in vocational rehabilitation.....	9540
beneficios por incapacidad, bajo las encomiendas, del 1958 a la ley de seguro social.....	6935	role in adoption.....	1476
benefits for farm people.....	9440	Socialism:	
benefits, if you work after you start getting payments.....	9439	Communist China, pioneering world's new age.....	10329
bulletin.....	2939, 11483	development through education in People's Republic of China.....	4968
statistical supplement, 1957.....	4061	North Vietnam, expansion through industrialization.....	12816
clergyman coverage.....	2095	role in development of economy of Mongolian People's Republic.....	5054
coverage for nonprofessional school district employees—		world socialist system, development towards communism.....	17577
law.....	15649	Socialist approach to scientific research work in Tsing-hua University, Communist China.....	9217
reports.....	4576, 6027, 14306	Socialist democracy and personality, USSR.....	12834
credits, how you earn them, etc.....	5360	Socialization of Chinese agriculture and rice crop.....	6397
disability benefits.....	10547	Society of Chinese Medical Workers, 10th joint congress data on national medicine.....	9258
disability provisions, how disabled must you be?.....	8159	Socio-economic aspects of manpower adjustments, low income rural areas (paper).....	15298
economic security for enrichment of retirement years.....	9131	Sociology:	
employer's tax guide.....	4952	international meetings, world list, items selected from Soviet journals.....	1750, 1759, 3641, 3652-53, 5012, 5017, 6369, 7890, 9182, 9192, 9198, 10248.
family's stake in.....	6875	North Korea, report.....	13160
farm families, questions and answers about old-age, survivors, and disability insurance benefits.....	6872	publications of Communist China, translations.....	13221, 13229, 14886, 14889, 16509, 16587, 16558, 17535, 17554, 17592, 17611.
farm people.....	1135	selected translations on Eastern Europe.....	598, 1758, 3650, 3656, 4970, 4997, 5001, 6351, 6375, 6395, 10220, 12811, 12821, 12831, 12851, 12852, 12867, 17560.
guía contributiva del seguro social para patronos Puertorriqueños.....	6324	Soda (caustic):	
help or information, list of social security district offices.....	9443	sodium-hydroxide-nickel system, mechanism of thermal-gradient mass transfer.....	6681
household workers, earnings now can bring checks later on.....	3904	Soda ash, use as deluge agent in treatment of fluorine spills.....	16894
information for crew leaders and farmers.....	9441	Sodium:	
laws, compilation.....	4434	sodium and sodium compounds—minerals yearbook chapter.....	15038
patient asks for medical report.....	1137	production, etc.....	5198, 9348
payments, how to estimate.....	5359	soils, application of chemical amendments for improving.....	3050
personal affairs guide for military personnel.....	4231-32	Sodium arsenite, poisoning of ponderosa pine in Black Hills harvest dates and peelability evaluation.....	3581
programs throughout world, 1958.....	4062		
publications, price list.....	9465, 10548		
railroad employees provisions, amend act, hearings.....	6075		
regulations.....	17079, 17848		
retirement test for farm people.....	6873		
self-employment.....	6871		
self-employment taxes, guide for farmers.....	17504		
tax guide for—			
agricultural employer.....	533		
household employers.....	534		
your social security, old-age, and survivors insurance, etc.....	3995, 8160		
(Spanish).....	17003		
<i>see also</i> Disability Insurance—Old-age and survivors insurance.			
Social Security Administration:			
Information Service circulars.....	9496		
regulations.....	17079, 17848		
Social Security Financing, Advisory Council on, <i>see</i> Advisory Council on Social Security Financing.			
Social service, <i>see</i> Social work and problems.			



# JANUARY-DECEMBER

	Entry		Entry
Sodium calcium borate, toxic to southern vegetation.....	3586	Soil erosion:	
Sodium chloride, <i>see</i> Salt.		control—	
Sodium citrate, elimination of Sr-89 organism.....	5123	structures for airfields, engineering manual, change.....	4786
Sodium cyanide, use in protection X-ray action, USSR studies.....	5103	under furrow irrigation in arid West.....	11623
Sodium hydroxide, <i>see</i> Soda (caustic).		role of steps on loess-mantled slopes of southern Nebraska, western Iowa, northwestern Missouri.....	513
Sodium isotopes:		wind erodibility of farm fields, estimations.....	4190
Na <sup>24</sup> , gamma radiations, theses.....	11722	Soil moisture, <i>see</i> Soils.	
Na-24, resorption from intradermal skin depot in rheumatism, USSR studies.....	7941	Soils:	
Sodium salts, complex-formers effect on excretion of radioactive isotopes.....	5106	and permafrost conditions in Alaska, evaluation.....	7677
Sodium silicate:		Blacklands area of Texas, factors influencing swelling and shrinkage.....	13708
bonded shell molds, method for producing.....	9444	compaction on forest and range lands.....	3074
mold and core sand bonded, factors affecting performance.....	6863	cover deposits of Tom-Kolyvan zone, engineering-geological characteristics.....	10264
Sofia, Bulgaria, vibrobeton factory for prefabricated and reinforced concrete.....	608	design, construction and performance observations.....	
Softwoods:		Harlan County Dam.....	8974
plywood, and veneer products, facts for industry, 1958.....	15479	Lookout Point Dam.....	8975
plywood industry, outlook for 1959 and review of 1958.....	1422	Wister Dam, Okla.....	12622
Soher, Willie, relief.....	15608, 15778, 16003	effects of nuclear attack, hearings, excerpt.....	13807
Soil bank program, <i>see</i> Soils.		Federal-State-private cooperative forecasts, Colorado, Rio Grande, Platte, and Arkansas drainage basins, snow courses and soil moisture stations, list.....	5411
Soil conservation:		fertility studies in lysimeters containing Lakeland sand.....	7070
Boy Scouts, activities.....	1319	fission products relationships.....	11747
catalog of practices and measures used.....	10587	forest, Pacific Northwest publications, bibliography.....	10178
commemorative stamp poster.....	13544	foundations bearing capacity, engineering manual.....	380
developments (talk).....	8225	frost investigations, cold room studies.....	3427
districts, what they are, how they work, how SCS helps them.....	9497	granitic, in central Sierra foothills, annual legumes growth and herbage production, etc.....	3554
economics important (talk).....	8228	infiltration, livestock trampling reduces in oak and pine woods.....	7829
engineering, utilizing soil surveys (address).....	13593	land conditions that influence wind erodibility of farm fields and control methods.....	4190
facility needs, report of research findings.....	15997	liming, aid to better farming.....	8310
Hawaii and Nation (talk).....	4063	moisture—	
local, county, and State committees, elections, amend law, report.....	14437	depletion differences of red pine and oak stands in Michigan.....	14730
our productive land, conserve and improve while using.....	17190	depletion under several Piedmont cover types.....	15333
our soil, every acre to its best use (talk).....	5412	neutron method for measuring.....	43
postage stamp commemorating (talk).....	15152	Paraguay.....	7855
professional conservationist of tomorrow (talk).....	2136	publications, price list, surveys, erosion conservation.....	9463
relation to soil compaction on forest and range lands.....	3074	saline lands, tolerance of grasses and forage legumes.....	82
reserve program of soil bank—		science, Soviet abstracts.....	3782
provisions and operating procedures.....	1506	5091, 5094, 6551, 10296, 13018, 13063, 13071, 13062, 13207, 13222, 17595.....	10324, 13062
statistical summary, 1958.....	15555	sodium, application of chemical amendments for improving.....	3050
soil bank reserve contracts, total cropland.....	7275	soil bank programs—	
soil conservation (periodical).....	2945, 11493, 5413, 3048, 5537	appropriations, 1960, Agriculture Dept., hearings.....	5909
index, v. 23.....		conservation reserve—	
statutes, compilation.....		cropland, report.....	7275
what is conservation farm plan.....		provisions and operating procedures.....	1506
wind erodibility of farm fields, estimations and control methods.....	4190	statistical summary, 1958.....	15555
<i>see also</i> Agricultural conservation program.		equitable treatment for participating producers—	
Soil Conservation Service:		law.....	15634
appropriations, 1960, Agriculture Dept., hearings.....	5909	reports.....	15818, 16065
national engineering handbook.....	8226		
SCS-CI series.....	1174, 9497		
SCS national engineering handbook.....	6937		
technical publication, TP series.....	17082-83		

# INDEX, 1959

Entry	Entry
Soils—Continued	Soldiers' Home, District of Columbia:
soil bank programs—continued	appropriations, 1960—
bay cutting under certain con-	hearings..... 5913, 8884
ditions, report..... 15861	law..... 14013
statutes, compilation..... 3048	report..... 7392
soil survey reports—	Soldier's Medal, change designation
Bitterroot Valley area, Mont..... 10589	to Airman's Medal, report..... 4585
Blount County, Tenn..... 15194	Sole (fish):
Bolivar County, Miss..... 5415	composition changes during re-
Brookings County, S. Dak..... 2138	frigeration..... 430
Carroll County, Ind..... 1175	Solicitor, Office of, Interior Dept.,
Cherokee County, Tex..... 6940	nomination of George Abbott,
Clark County, Ohio..... 5414	hearing..... 6064
Deschutes area, Oreg..... 9499	Solid gasoline..... 13770
Duplin County, N.C..... 8229	Solidification of aluminum-silicon
East Millard area, Utah..... 15192	eutectic..... 16989
Fulton County, Ga..... 1178	Solids:
Lawrence County, Tenn..... 13592	adsorption theory and phenomena
Lynn County, Tex..... 17849	pertaining to gas-solid inter-
Manatee County, Fla..... 1177	face..... 3118
Monona County, Iowa..... 6941	atomic phenomena occurring on and
Norfolk County, Va..... 15193	near surfaces, investigations..... 4202
Potter County, Pa..... 2137	electronic band structure by method
Preston County, W. Va..... 17850	of experimental X-ray spec-
Richland County, Wis..... 13591	troscopy..... 11663
St. Mary Parish, La..... 9500	low energy, wettability by aqueous
Saline County, Kans..... 4065	solutions..... 1128
Sunflower County, Miss..... 9501	non-volatile, entrainment in sub-
Thurston County, Wash..... 1176	limation at reduced pressure..... 3159
Tift County, Ga..... 6939	surface phenomena, literature re-
Tippecanoe County, Ind..... 17081	view..... 17008
Wilboux County, Mont..... 4064	thermodynamic properties..... 5303
stabilization by vertical sand	Solomon, electrochemical principles and
drains..... 17165	low-power devices..... 3999
temperature measurements, equip-	Solov'yev, Victor, relief..... 4680
ment and methods..... 8289	Solubility of iron and nickel in beryl-
temperatures, scheme of calculating	lum, analysis of concentra-
according to given weather	tion gradients..... 1388
forecast, USSR study..... 5124	Solutions:
treatment aid in termit control..... 13727	aqueous, wettability, relation to
types, factors in growth, specific	surface constitution of low-
gravity, and chemical compo-	energy solids..... 1128
sition of quaking aspen..... 9099	blood substitute, problems of clas-
use in Soviet Union, report of U.S.	sifications, USSR study..... 6487
technical study group..... 8335	crystallization processes, kinetics,
warm, heat regime, computation of	USSR study..... 16598
elements, USSR study..... 5150	fertilizer, hose pump for applying,
Yellow River floodplain, China..... 12885	techniques in fluorescent X-ray
see also headings beginning Soil.	spectrography..... 16721
Solanine poisoning, massive outbreak,	Solvents:
USSR study..... 6578	distribution of complex compound
Solano County, Calif.:	between 2 solvents, USSR
real property exchange—	study..... 14954
law..... 14016	metallic soaps, distribution of
reports..... 8654, 12449	acetic acid in benzene solu-
Solano project, Monticello Dam, de-	tions..... 5342
sign and construction..... 8206	Songs:
Solar:	Armed Forces song folio..... 2482, 11014
NOTE.—For other subjects	hit kit for soldier shows..... 1236
beginning Solar, see Sun.	see also Folk songs.
Solar energy:	Sonic soundings, see Soundings.
cadmium sulfide generator, prop-	Sorghum:
erties..... 11690	chinch bug control..... 1308
development of solar engineering	price supports, amend act—
in Armenian SSR..... 3742	hearing..... 7435
Soviet utilization..... 15455	report..... 7405
use for sea water conversion, Solar	views..... 7405
Research Station, Daytona	sweet, growing in southern Cali-
Beach, Fla..... 16486	fornia..... 15279
Solar flares, IGY studies..... 5341	Sorgo, see Sorghum.
Solar furnaces:	Sorption, see Adsorption.
radiometer for measurement of high	Soto, George B., claim against Guate-
intensity radiant flux..... 15336	malia, hearing..... 8731
support studies..... 3086	Sound:
Solar power, see Solar energy.	absorption coefficient of acousti-
Solar Research Station, Daytona	cally treated surfaces, effect of
Beach, Fla., general informa-	paint..... 1167
tion..... 16486	acoustic analyzer, sensitivity for
Solder and soldering, techniques for	hearing children by
standard type solder terminals,	method of registration of vas-
military standard..... 10064	cular reactions..... 7931
Soldiers, first aid, field manual..... 13780	acoustic coagulation of aerosols
	and its technical application,
	USSR study..... 3794

# JANUARY-DECEMBER

	Entry
Sound—Continued	
combustion screech in ducted burners, summary of preliminary investigations into characteristics.....	9361
journal of acoustics (USSR periodical), abstracts.....	10817
measuring air temperature by local acoustical method, USSR study.....	16624
supplement.....	17631
propagation in ocean, observations use in forecasting tsunamis, USSR paper.....	5152
Soviet abstracts.....	717, 1848, 1855, 3770
spontaneous formation of centers in undercooled melt in ultrasonic field, USSR study.....	16611
subthreshold and suprathreshold sound stimulation, galvanic skin responses characteristics.....	1774
theory of flexural piezoceramic circular plate sound radiators.....	9435
ultrasonics—	
bats, morphological basis of locative, etc., abilities, USSR study.....	16618
early detection of fatigue damage in aluminum alloys.....	15366
test standards for aircraft materials, research and development leading to establishment.....	4275
ultrasound defectoscopy, aid in diagnosis of tumors, USSR studies.....	10349
ultrasound effect on diffusion processes in steels and alloys at elevated temperatures, USSR studies.....	1925
use in estimating backfat thickness in live hogs, comparison with human judgment.....	9573
use of ultrasound in aerosol therapy, USSR study.....	10352
underwater radiator, acoustical theory of very thin piezoceramic hollow sphere.....	8148
wave propagation in suspensions, see also Noise—Soundproofing.....	8155
Sound ranging crewmen, MOS proficiency test aid.....	1367
Sound recordings, preservation and storage study.....	14980
Sounding and soundings:	
estimating maximum fishing depth of longline gear with chemical sounding tubes.....	7756
sonic, oceanic recording and reporting, observers manual.....	3617
Soundproofing, wall, floor, and door constructions, insulation, supp.....	2055
South (U.S.):	
cheddar cheese, farm to retail price spreads.....	7058
cost of transporting freight.....	3628-30
fertilizer manufacture by cooperatives.....	12624
pulpwood production, 1957.....	1698
rice mills, costs of operating.....	8323
sulfur content of rainwater as related to crop needs.....	4197
wood pulp industry, growth.....	16451
South Africa, see Union of South Africa.	
South America:	
east coast, tide tables.....	7249
flight information, corrections.....	2315
lights and fog signals, list.....	3609, 7865, 14769, 16477
Pacific Coast, sea water density.....	268
radio facility charts.....	2307, 10757

	Entry
South America—Continued	
sailing directions, changes.....	1722, 6312
west coast, tide tables.....	4398
see also Caribbean Sea.	
South Atlantic States, see Atlantic States.	
South Carolina:	
Catawba Indians, tribal assets, divide among members of tribe—	
law.....	15687
reports.....	14264, 16108
census of governments, 1957, State bulletin.....	11800
Clemson Agricultural College conference of mineral rights, report.....	12195
climatological data.....	2993, 11546
electric rate book.....	14635
landings, fishery products.....	2629, 11167
annual summary, 1958.....	6184
mail routes, schedule.....	2102
mineral industry, minerals year-book chapter.....	16709
precipitation data, hourly.....	2996, 11549
reserved mineral interests of U.S. in certain lands permit sale—	
law.....	14009
report.....	12443
sandhill region, pine planting.....	3583
timber cull study, analysis.....	496
South Central States, see Central States.	
South China Sea, western shores, sailing directions, change.....	9135
South Dakota:	
agricultural conservation hand-book.....	3007
census of governments, 1957, State bulletin.....	13842
climatological data.....	2993, 11546
durum wheat allotments, increase—	
hearings.....	6043, 7438
report.....	12445
electric rate book.....	7711
flaxseed storage at country elevators.....	13732
Indians on Federal reservations, general information, digest.....	13563
mineral industry, minerals year-books chapters.....	1996, 17701
Pierre area, geology.....	10192
Pierre shale, uranium content.....	10190
precipitation data, hourly.....	2996, 11549
see also Standing Rock Reservation.	
South Kingstown, R. I.:	
beach erosion control study, engineer report—	
departmental edition.....	389
document edition.....	304
South Wilmington, Mass., railroad accident.....	3638
Southeast (U.S.):	
cotton gin equipment, 1957, southeastern area.....	15261
fluid milk plants, methods, equipment and layout.....	99
forest fire control, testing TBM aerial tanker.....	14737
forest insect conditions, 1958.....	9107
principal electric facilities, map.....	16341
shelled corn stored in metal bins, protective treatments with malathion and methoxychlor.....	13735
upland oak site index curves.....	10180
Southeast Airlines, accident.....	15504
Southeast Asia, see Asia.	
Southeast Asia Treaty Organization:	
cooperative cholera research program, technical assistance, agreement.....	13627
what it means to U.S. (address).....	8252

# INDEX, 1959

	Entry
<b>Southeastern Forest Experiment Station:</b>	
forest survey releases	1698, 14736
hickory task force report	6270
research notes	496,
10180-182, 12753-754, 17479	1699,
station papers	3583, 6271-72, 9107, 14737
<b>Southeastern Power Administration, appropriations, 1960, public works, hearings</b>	8721
<b>Southeastern States, see Southeast (U.S.).</b>	
<b>Southern Airways, history of Government subsidies (address)</b>	4365
<b>Southern Forest Experiment Station:</b>	
forest survey releases	497, 16449
occasional papers	498, 1700, 3584-85, 6273-74, 7837, 10183, 14738, 16450, 17480.
report, 1958	12741
southern forestry notes	499-500, 3588, 6275, 10184, 16451
<b>Southern Pacific Co., railroad accidents</b>	3636, 14792
<b>Southern pine, see Pine.</b>	
<b>Southern States, see South (U.S.).</b>	
<b>Southern Utilization Research and Development Division, publications and patents, list</b>	4161, 11608
<b>Southwest (U.S.):</b>	
cantaloup insects, how to control	4172
cotton gin equipment, southwestern area	15262
cotton irrigation	11595
drouth report	4011
ginning Acala cottons	8332
home fruit garden	8316
oil field equipment and supplies, transportation costs	14787
pitting for range improvement	112
principal electric facilities, map	16339
watershed management research, literature review	3588
<b>Southwest Harbor:</b>	
improvement, engineer report—departmental edition	390
document edition	296
<b>Southwestern Power Administration, appropriations, 1960, public works, hearings</b>	8721
<b>Southwestern States, see Southwest (U.S.).</b>	
<b>Sovetskaya Meditsina (periodical): articles</b>	10250
<b>Soviet abstracts</b>	662-663, 708-711, 717-720, 722-723, 735-743, 756-762, 765-771, 773-776, 781-792, 1817-18, 1820, 1823, 1825-30, 1839-40, 1847-54, 1857-61, 3728-33, 3739-40, 3743-49, 3751-52, 3754-86, 5031-34, 5039, 5041, 5044-47, 5055, 5060-61, 5068, 5072, 5075, 5077-79, 5081-82, 5085, 5087, 5091-94, 6462-64, 6466, 6468-69, 6476, 6478-81, 6511, 6513-18, 6522, 6525-29, 6531-33, 6539-52, 6558, 6564-67, 6569, 6571-73, 10275-276, 10279-282, 10286, 10289-291, 10296-298, 10301-304, 10307, 10310-321, 10323-325, 12998, 13001, 13005-12, 13016-19, 13022-24, 13031-36, 13038, 13041, 13043-45, 13049-58, 13062-63, 13065-68, 13070-79, 13082-93, 13095-96, 13098, 13103-104, 13106-109, 13110-120, 13130-133, 13135, 13137-139, 13141, 13145-153, 13158, 13162-163, 13165, 13170-171, 13173-174, 13181, 13186-188, 13192-195, 13198, 13204-209, 13213-216, 13218, 13222-225, 13230, 13233-235, 14868, 14870—

	Entry
<b>Soviet abstracts—Continued</b>	
873, 14880, 14882, 14890-892, 14898-899, 14902, 14906, 14909, 16562, 16565, 16567-568, 16572, 16582, 16584-585, 16587, 16589-591, 17580, 17588, 17593-595, 17598-601, 17603, 17612, 17615-616, 17620, 17623, 17625, 17627-628, 17630.	
<b>Soviet bloc:</b>	
as reported by former nationals	11502
assistance to North Vietnam, selected newspaper articles	13025
geophysical year information	2339, 10866
<b>IGY literature translations</b>	3647, 3665, 3681, 7891-92, 7895, 7900, 7912-13, 9187, 10244, 12868, 14801.
<b>International geophysical cooperation information</b>	10866
<b>Intra-bloc, selected economic translations</b>	778, 5064, 13081, 13212, 13227, 14877, 16505, 16566.
<b>Sino-Soviet cooperation in field of medical science, USSR study</b>	6488
<b>Sino-Soviet economic threat to newly developed free nations</b>	6946
<b>United States trade, 1957-58</b>	10161
<b>see also Union of Soviet Socialist Republics.</b>	
<b>Soviet IGY studies on zodiacal light</b>	5088
<b>Soviet medicine (USSR periodical): articles</b>	10250
<b>Soviet Republics, see Union of Soviet Socialist Republics.</b>	
<b>Soviet Russia, see Union of Soviet Socialist Republics.</b>	
<b>Soviet Secret Service, scope of activity in U.S., hearings</b>	6072
<b>Soviet Union, see Union of Soviet Socialist Republics.</b>	
<b>Soviet world outlook, handbook of communist statements</b>	17087
<b>Sowing, pitch pine seedling in southern New Jersey, progress report</b>	6262
<b>Soybean meal, futures trading and open contracts</b>	2431, 10964
<b>Soybean nematode, see Nematoid worms.</b>	
<b>Soybean oil, futures trading and open contracts</b>	2428, 10961
<b>Soybeans:</b>	
botanical aspects, selected references 1930-58	13742
growing, recommendations	4170
harvested for beans, acreage, yield, production, 1957-58	11589
plants, injury from soybean cyst nematode in Japan, studies	13716
price supports, amend act—minority views	7405
report	7405
<b>United States product, use in Japan</b>	5511
<b>SP series</b>	403, 3462-63, 4817-18, 6126-29, 8988-93, 10101, 12647, 14627-628, 16324, 17406.
<b>Space:</b>	
exploring new frontiers (address)	5213
law bibliography, Air Force pamphlet	4252
<b>Navy contributions, research, etc., Western Space Age Conference, Mar. 5-7, 1959</b>	5358
<b>new frontier</b>	17762
<b>velocity, diffusion effect on plasma oscillations</b>	1390
<b>see also Outer space.</b>	
<b>Space Administration, see National Aeronautics and Space Administration.</b>	



# JANUARY-DECEMBER

	Entry		Entry
Space age:		Sparks, low energy discharges, measurement of electrical waveforms.	8047
civilian program (address)-----	2016	Spatial perception, <i>see</i> Space perception.	
electronic industry's part in development of space business (statement)-----	6797	Spatial relations, <i>see</i> Space relations.	
man on wings, USSR study-----	6534	Spawn:	
NASA achievements in aero-space field (address)-----	8058	albacore, sexual maturity and spawning in Pacific Ocean, study-----	7747
National program, development and plans (address)-----	17720	Okanogan River blueback salmon escapement, 1957-----	6199
next 10 years in space-----	7332	pelagic fish eggs and larvae off California, and Baja California, vertical distribution-----	17428
additional copies, report-----	7366	salmon, environment, plastic stand-pipe for sampling-----	4862
pilot's philosophy (address)-----	16307	Specialists, social work, examination announcement-----	1490
Project Mercury, meeting with astronauts, hearing-----	14354	<i>see also</i> types of specialists or occupations.	
research aspects in American business (address)-----	3880	Species, succession and speculation of pelceypod Aucella-----	7853
satellites, lunar probes and space probes, U.S. and Russia, statistics-----	9388	Specific gravity:	
technical introduction, challenge of space exploration-----	9387	quaking aspen on different soil types-----	9099
Space and Astronautics, Special Committee on, Senate:		tree, estimating from single increment core-----	12730
activities, final report-----	4732	Specific orientative and protective pupillary reactions-----	14914
calendar-----	2479	Specification bulletins, Air Force Department-----	1358-60, 4264, 7115
committee prints-----	16229-230	Specifications, <i>see</i> Government supplies—Military supplies— <i>also</i> names of departments, etc., issuing specifications.	
report-----	4732	Spectacles:	
Space Exploration, Select Committee on, House, <i>see</i> Astronautics and Space Exploration, Select Committee on, House.		improved Air Force sunglass, development-----	15368
Space Exploration, Special Committee on, Senate, <i>see</i> Space and Astronautics, Special Committee on, Senate.		regulation and issuing, Air Force pamphlet-----	8364
Space medicine, <i>see</i> Medicine.		sunglass lenses, ultraviolet and near infrared absorptive coating materials and techniques for their application-----	15367
Space perception:		sunglasses, trade practice rules-----	6179
cerebral cortex role in spatial orientation, USSR study-----	6415	Spectra:	
formation in children, USSR study-----	14962	emission of uncoated and ceramic-coated inconel and type 321 stainless steel-----	6792
Space propulsion:		energy, resulting from electron slowing down-----	5311
hearings-----	9927	infrared, dispersion and determination of absorption coefficients-----	8151
reports-----	14351, 15864	mass, nitrate esters, nitrite esters, nitro compounds, and other nitrogen compounds-----	5361
Space relations, Air Force technical jobs, spatial abilities and selected elements-----	7124	near infrared, determination-----	15357
Space-time correlations and spectra of wall pressure in turbulent boundary layer-----	6788	optical—	
Spacecraft:		atomic energy levels derived from analyses, tables-----	1102
field, employment outlook-----	9297	properties of Saturn's rings-----	1171
NASA/USAF probes, 1958, summary-----	13436	stellar, Stark broadening functions for hydrogen lines, numerical values of intensities-----	9395
3-dimensional lunar mission studies-----	13437	vibration, and dispersion relations of face-centered cubic lattices, NAREC calculation-----	8142
Spain:		wave, for wind-generated gravity waves-----	17388
agricultural production and trade, changes-----	9060	Spectrography:	
bases, inspection, report-----	14330	rare-earth elements, analysis-----	6667
Commission for Educational Exchange between United States and Spain, agreement-----	1203	X-ray, fluorescent-----	16724
economic developments, 1958-----	7790	probe-design and applications-----	16721
information for Air Force dependents-----	139	solution techniques-----	16721
loan of vessels, agreement-----	15211	zinc-base die castings, emission method for analysis-----	6884
offshore procurement program, agreement-----	8248	Spectrometers:	
role of farm products in U.S. aid-----	17433	neutron, for determination of sub-thermal neutrons and cross sections of gold and metallic hydrides-----	8397
sailing directions, change-----	14773	ultra-high vacuum mass, for study of surface of solids, description, etc-----	4202
surplus agricultural commodities, agreements-----	1204, 5436, 6964		
Spanish-American War, <i>see</i> War with Spain, 1898.			
Spanish Guinea, economy, basic data-----	10147		
Spanish War Veterans, <i>see</i> United Spanish War Veterans.			
Spare parts, identification and cataloging, CAA specification-----	222		
<i>see also</i> Repair parts.			
Spark-ignition, <i>see</i> Ignition.			
Sparkling, metals, research and development report-----	13575		

# INDEX, 1959

Entry	Entry
Spectrometers—Continued	Spin (isotopic):
use in identifying flavor and odor	and systematics of fundamental
of fish.....	particles.....
14661	15395
Spectroscopy:	Spinach, market diseases.....
electron paramagnetic resonance in	8306
biology, USSR studies.....	Spinal cord, morphologico-physiological
3660	analysis of compensatory
optics and spectroscopy (USSR pe-	mechanisms of sensory-motor
riodical), abstracts.....	functions following injury,
10847	USSR study.....
scintillation, use in evaluation of	3687
radioactive contamination of	Spine, reflex arcs, maturing rate in
human body.....	rabbits, USSR study.....
11720	14952
X-ray method for electronic band	Spinels, minerals, entropies at
structure of solids.....	298.15° K, summary.....
11663	16726
Speculation:	Spinners (aircraft):
cotton—	elliptical, flight investigation of
commitments of traders in	surface pressure distribution
futures.....	and flow field.....
2426, 10957	3929
on call positions and transactions	Spinning:
in spot cotton, weekly re-	cotton—
ports.....	effects of various gin treat-
2432, 10965	ments.....
futures trading and open con-	4140, 9583
tracts—	properties, 1958 crop.....
cotton and cottonseed oil... 2427, 10960	15296
cotton, wool, wool tops, cotton-	test methods, evaluation.....
seed oil, soybean oil, and	4140
tallow.....	mechanization and automation,
2428, 10961	economy points of view.....
eggs, onions, potatoes, and but-	802
ter.....	1966
2429-30, 10962	Spirit of the law.....
potatoes, onions, eggs, butter, and	Spleen, homoplastic transplantation
rice.....	for therapy of acute radiation
2430, 10963	sickness, USSR study.....
soybean meal and cottonseed	14927
meal.....	Splices, strength tests of spliced
2431, 10964	studs.....
grain futures trade.....	16432
2425, 10956	Spollers (aircraft):
wheat futures, commitments of	and spoiler-slot-deflector on swept-
traders.....	back wing-fuselage model,
10958	low-speed pressure-distribution
wool and wool top futures, commit-	investigation.....
ments of traders.....	1053
10959	complete wings, effects of span,
Speech:	spanwise, and chordwise loca-
development in child, USSR study...	tion on control effectiveness at
14956	Mach numbers of 1.41 and
habits of deaf-mute children prac-	1.96.....
tically without hearing, meth-	10476
ods of fixing, USSR study.....	controls—
17635	load distribution on wings due to
handicapped children, preparation	projection at subsonic and
of better-trained personnel to	transonic speeds.....
work with them in schools.....	17730
3415	loads associated with spollers at
pronunciation mastery by children	supersonic speeds.....
during 2d and 3d year, USSR	17729
study.....	rolling and drag, effectiveness at
16592	high subsonic and low super-
role in child development, USSR	sonic speeds.....
study.....	13417
14966	leading-edge and trailing-edge air-
Speeches, see Addresses, lectures, etc.	jet spoiler on unswept wing,
Speed, see Air speed.	zero-lift rolling effectiveness.....
Speedometers, see Tachometers.	17733
Speer, Virginia E., relief... 4515, 5986, 7298	lower-surface, effect on transonic
Spheres:	trim change of wind-tunnel
metal, impact penetration into cop-	model of fighter airplane.....
per targets, high-speed investi-	16868
gation.....	paddle, as lateral controls, flight
5222	and wind-tunnel investigation...
NASA 12-foot-diameter, free-flight	16878
test of technique for inflating	plain, on thin untapered wings,
at high altitudes.....	effect of aspect ratio and
3933	chordwise location.....
propagation of explosion-generated	16840
strain pulses in rock.....	rolling effectiveness, effects of tail
13366	damping and wing-tail inter-
Spices, foreign agricultural circulars...	ference.....
2643, 11182	16845
Spies, espionage, etc., laws, compila-	rotating vane, control system with
tion.....	low actuating forces, free-
284	flight performance.....
see also Espionage.	16849
Spillways:	Spokane Valley project:
and outlet works, hydraulic model	construction, etc.—
investigation.....	hearing.....
8972	law.....
crest and flip bucket, Pine Flat	15641
Dam, Kings River, Calif., proto-	reports.....
type tests.....	6025, 12132, 14298
12619	Sponges, background information for
Table Rock Dam, White River, Mo.,	voluntary grade standards.....
hydraulic model investigation...	6198
12617	Spontaneous flammability of penta-
Spin (aircraft):	borane and pentaborane-3-
flat, stability investigation and an-	methylpentane blends.....
alysis of effects of applying	974
various moments utilizing 3	Spontaneous ignition see Ignition.
moment equations of motion...	Spores:
10499	bacterial, substances screened for
incipient and developed character-	ability to reduce thermal re-
istics of airplanes, technique	sistance.....
using free-flying radio-con-	17186
trolled models to study.....	of <i>Aspergillus niger</i> , electrophoretic
5280	properties.....
	17805
	Sport fisheries, see Fish and fisheries.

# JANUARY-DECEMBER

	Entry		Entry
Sport Fisheries and Wildlife Bureau, report, 1958	9030	Sprue, tropical, in Puerto Rico, Army studies	8391
Sporting goods, recreational and athletic equipment, Federal supply schedules	4835, 12674	Square Lake, test wells	6292
Sports:		Squawfish:	
National Olympic Week designation—		basic food of <i>Ptychocheilus oregonensis</i> species of lower Columbia River	17426
law	15715	leading adult within electric field	12689
reports	8694, 14545	Squirrels:	
organized professional teams commercial activities applicability of antitrust laws, hearings	338, 16214	red, effect on crown form of black spruce in Alaska	3551
vitamin B <sub>1</sub> and C requirements during participation, USSR study	12958	tree, damage to trees, shrubs, buildings, etc., control	14679
see also Fish and fisheries—Pan American games		SSC, see Ship Structure Committee	
Spotted alfalfa aphids, how to control	8317	Stability and surface tension of feldon dispersions in water	10541
Spout-type automatic sampler for farmers stock peanuts	11639	Stability of aircraft:	
Sprayers:		aerodynamics of wings, effects of thickness ratio and thickened root sections at transonic speeds	1026
classification bulletin	8166	Air Force transonic-flight tests of XS-1 airplane, results obtained during extension	1023
helicopter agricultural equipment, USSR study	7925	automatically controlled interceptor, flight and analog computer study of final attack phase	954
knapsack, developed by P. G. Sergiyev and V. A. Nabokov, USSR study	17642	ballistic-type missiles	15064
Sprays and spraying:		block diagrams of equations of perturbed airplane motion	17761
aerial—		boundary-layer control on leading- and trailing-edge flaps—	
new tool in forest management—to eliminate insects in forests, results	6277, 832	full-scale wind-tunnel tests—	16919
drying of antibiotics, methods	6412	investigation	3928
ethylene dibromide sprays, use for controlling bark beetles in California	16441	buffet characteristics of wingless rocket-powered models, effects of external-store mounting arrangements and shapes	1046
lindane for control of pine engraver beetles	9089, 12747	contactor control systems, 2d- and 3d-order, studies	17749
parathion and malathion timing effect on orange production	8288	data for configurations from rocket-model tests at transonic speeds	17726
poisoned-bait, fruit fly control in Hawaii	42	directional, and low-amplitude damping in yaw, of fuselage-tail configuration at Mach numbers up to 1.10, wind-tunnel investigation	16846
Spring Lake Park School District: lease Twin Cities Arsenal land—		downwash and sidewash behind wings performing various motions at supersonic speeds, estimation tables	8075
law	15719	dynamic—	
reports	12242, 14537	ground-launched rockets, equipped with cruciform and monoplane fins, comparative dispersion data	6734
Spring lobster, see Lobsters		response characteristics of variable longitudinal control system	16764
Springer, William, contested election, complaint of Mr. Myers	7336	dynamic longitudinal—	
Springfield, Mass., electric facilities of area, map	16335	oscillatory motion of manned vehicles entering earth's atmosphere study	6772
Springs (mechanism):		rocket-powered models, load response in rough air at transonic speeds, characteristics	6731
drawing requirements, military standard	4764	effect of wing-location and geometric dihedral on aerodynamic characteristics in pitch and sideslip	6733
Sprinklers:		fences, leading-edge chord-extensions, etc., effects on wing-body configuration	15061
classification bulletin	8166	flight simulators, use for pilot-control problems	5296
irrigation systems, head loss in quick-coupled aluminum pipe, study	5526	flow fields behind rectangular and triangular wing up to high angles of attack	16908
Spruce:		high-speed operation of jet transports, flight studies of problems	6773
black—		horizontal fluid layer with unsteady heating from below and time-dependent body force	17765
costs of marking for cutting, northern Minnesota	3566		
crown form, effect of pruning by red squirrels in Alaska	3551		
Minnesota swamps, natural regeneration under various cutting systems	17208		
Engelmann—			
beetle-killed, shows promise as raw material for particle board	12749		
Colorado beetle-killed, rate of deterioration, progress report	12750		
suitability for hardboard	3563		
Sitka—			
cubic volume tables	16439		
silvical characteristics	1693		
Spruce budworms:			
control project, 1958, Oregon	12755		
larval population sampling studies, northern Rocky Mountains	7821		

# INDEX, 1959

Entry	Entry
Stability of aircraft—Continued	Stability of aircraft—Continued
horizontal-tail chord effect on calculated subsonic span loads and stability derivatives of isolated unswept tail assemblies	longitudinal—continued
horizontal-tail effects in sideslip on 45° sweptback, untapered tail assembly	loads experienced in flights of swept-wing research airplanes in angle-of-attack of reduced stability
jet fighter airplanes maneuvers in relation to handling qualities and calculated dynamic characteristics	low-speed pressure distribution investigation
jet propelled airplanes responses to abrupt throttle steps as determined from flight tests	maneuvering, minimum tolerable, moving-cockpit investigation
lateral—	pitch-damping derivatives of complete airplane and missile configurations as measured in flight at transonic and supersonic speeds, summary
controls, body-mounted, and speed brakes on 45° swept-wing model at Mach numbers from 0.80 to 0.98, force test results	pitch-up elimination, design studies
derivatives of 45° swept high-wing model oscillating in yaw, effects of ventral fins, wind-tunnel investigation	pitch-up problem, criterion and method of evaluation
static, swept-wing fighter airplane to Mach-number of 1.39, flight-determined characteristics	pitch-up problem, evaluating loads and controllability aspects
static, 35° swept-wing airplane	rocket-powered airplane having sweptback wing and inline tail surfaces
swept, unswept, oscillating in yaw, variations of frequency and amplitude effects	rolling, of aircraft with negative static margins, effect of artificial pitch damping
swept-wing fighter airplane, with vertical tails	sweptback wing-fuselage model, effect of wing position on pressure characteristics at transonic speeds
lateral and directional rocket propelled model, effects of yaw damper system	swept-wing and fuselage combination, effects of wing fences and tail at subsonic speeds
linearized equations of motion, investigation of flat spins stability and analysis of effects of applying various moments	2 highly swept wing-body combinations at Mach numbers from 0.6 to 1.4, effects of wing-tip droop
longitudinal—	wing fences effect
behavior of automatically controlled supersonic interceptor during attack phase, theoretical analysis	wing height effect
Bell X-1 airplane from transient responses at Mach numbers up to 1.12 at lift coefficients of 0.3 and 0.6	wing taper ratio and low horizontal tail position, effects
body camber and body indentation effects for 60° delta-wing-body combination	wings
canard configuration at transonic speeds	longitudinal and directional, rocket-powered supersonic airplane configuration, flight investigation results
canard-type missile, seeker-nose configurations, effects at Mach number 1.60	longitudinal and lateral—
control characteristics of supersonic airplane configuration, wing-flow measurements	cambered-delta-wing model at high subsonic speeds, characteristics
Convair XP-92A delta wing airplane flight maneuvering including effects of wing fences	characteristics of swept-wing configuration at transonic speeds, effect of negative dihedral of horizontal tail
effect of body and fin deflections on aerodynamic characteristics in pitch of 0.065-scale model of 4-stage rocket configuration at Mach nos. 1.41 and 1.82	Douglas D-558-II research airplane, wing-mounted external stores effects
effect of wing slots and slats, exploratory investigation	low-speed pressure distribution investigation
fin-actuated jet-vane control system for stabilization of rocket-powered models, investigation	low-speed operation of jet transports, flight studies of problems
flight measurements and response characteristics of XF-92A delta-wing airplane	low-speed static, model of right triangular pyramid reentry configuration
gap between wing and body, effects	low-subsonic static, at angles of attack, 0° to 90° for model with low-aspect-ratio unswept wing
high pressure blowing over flap and wing leading edge for control	nonlinear aerodynamic stability characteristics to simplify missile control and guidance systems
infrared homing missile configuration	nonlinear control system
	ram jet combustor, effect of immersed surfaces in combustion zone
	rocket models, aspect-ratio-5 unswept wings on long body for Mach number range of 1.7 to 2.4



Stability of aircraft—Continued	Entry	Stability of aircraft—Continued	Entry
roll derivatives, experimental determination of effects of frequency and amplitude of oscillation of 60° delta-wing airplane model.....	10488	static longitudinal—continued	
rolling behavior of swept-wing airplane with lateral-longitudinal coupling, effect of vertical-tail size, flight investigation.....	6725	sweepback-wing—indented-body configurations equipped with fences, wing-tip control effect.....	6782
rolling maneuvers, analog investigation of inertia coupling of airplane configuration using variable-incidence wing for longitudinal control.....	16861	35° swept-wing airplane.....	16809
sampled-data techniques applied to digital controller for altitude autopilot.....	9309	thrust reverser effect.....	16899
several tail configurations on model having 45° sweptback wing, experimental study at high subsonic speeds.....	16844	static longitudinal and lateral—characteristics of airplane configuration, low speed investigation.....	13424
single-engine jet airplane, effect of controllable thrust reverser on flight characteristics.....	9875	fuselage nose length and canopy effects on low-speed oscillatory yawing derivatives.....	3923
60° delta-wing configuration, propulsive jet effect.....	13419	wind-tunnel investigation with X-1E model at supersonic speeds.....	15068
static—		straight-winged airplane, effects of large wing-tip masses.....	3945
low speed to determine aerodynamic forces and moments on canard missile during simulated launching from midsemi-span and wing tip locations of 45° sweptback wing-fuselage combination.....	10477	structural handbook.....	16926-927
wingless jet VTOL transport model, low-speed wind-tunnel investigation.....	17787	supersonic fighter-class airplane with external-flow jet-augmented flap in low speed flight, wind-tunnel investigation of aerodynamic characteristics.....	16890
static and oscillatory lateral derivatives of swept-back wing configuration, low-subsonic measurements at angles of attack from 10° to 90°.....	13434	sweep-wing—	
static lateral and directional—characteristics of model having highly tapered swept wing of aspect ratio 3 and 2 horizontal-tail positions investigation at high subsonic speeds.....	17732	maximum wing and tail loads, summary of flight conditions and maneuvers.....	10470
control, aerodynamic characteristics in pitch and sideslip of swept-wing configuration.....	13430	response to longitudinal control in landing approaches, analytical study.....	1039
static longitudinal—characteristics at transonic speeds of 30° swept-back wing in wing-body configuration with and without horizontal tail.....	10487	sweepback wing airplane, pitch and sideslip, basic-data presentation, M-2.01.....	6729
configurations consisting of 3 triangular wing-panels and body of equal length, characteristics.....	5221	sweepback wing-body configuration transonic wind tunnel investigation to determine effects of twist and camber on aerodynamic characteristics.....	10479
control, aerodynamic characteristics in pitch and sideslip of sweptback-wing airplane model.....	6735	sweepback-wing jet-transport model equipped with external-flow jet-augmented double slotted flap.....	6783
delta-wing rocket models with and without external stores at Mach numbers from 0.8 to 1.36.....	13409	tilt-wing vertical take-off and landing model—	
effects of aircraft configuration at supersonic Mach numbers below 3.....	6738	flight investigation.....	2046
45° sweptback tail-wing-fuselage combination, transonic investigation.....	13420	force test investigation.....	2045
lateral aerodynamic characteristics of 45° swept-wing fighter airplane, effects of external stores.....	16839	time-vector determined lateral derivatives of swept-wing fighter type airplane with 3 different vertical tails.....	15055
low speed investigation of blowing from nacelles mounted in-board and on upper surface of aspect-ratio-7.035 swept wing.....	10492	transonic-bump method of static longitudinal aerodynamic characteristics of swept, tapered, thin wings at transonic speeds.....	1063
		triangular-wing-body combinations in sideslip, experimental investigation.....	6687
		wing inboard plan—form modification effects on lift, drag, longitudinal stability of rocket propelled model with sweptback wing.....	16855
		yaw damping effects on airplane motions and vertical-tail loads in turbulent air.....	5285
		Stability of ceramics and hydrogen between 4000°-4500° F.....	6778
		Stability of hydromagnetic equilibria with helically invariant fields.....	4318
		Stabilization:	
		economic—	
		policy questionnaire, tabulation of replies.....	4423
		progress (remarks).....	7730
		tax policy study, papers, additional copies, report.....	14280
		price relationship to economic stability and growth, hearings.....	3261
		public debt management (statement).....	10110
		thermal and hydrolytic, diabasic acid diesters.....	11692

# INDEX, 1959

	Entry		Entry
<b>Stabilization—Continued</b>		<b>Standards and standardization—Con.</b>	
tobacco, price program, hearing----	7440	military index----	
wheat, price program, hearings----	7438	Army Department-----	4284, 11695
<i>see also</i> Prices.		Army Department, supplements----	2322, 10768
<b>Stadiums:</b>		Navy Department-----	6969, 17129
construction, etc., in District of Columbia, amend act----	15742	Navy Department, supplements----	2959, 11507
law-----	12144, 12261, 16142	military manual for-----	
reports-----		qualified products list-----	12588
<b>Staff development, <i>see</i> Administrative management.</b>		specifications-----	4770
<b>Staff training:</b>		standardization-----	4771, 8928, 12587, 14589
institutions for juvenile delinquents, workshop report-----	15485	military standards-----	357-359, 1583-88, 3409, 4763-69, 6088-89, 7660-61, 8925-27, 10060-67, 12579-585, 14588, 16241-248, 17371.
Labor Statistics Bureau program, report, 1959-----	16668	<b>National Bureau of Standards</b>	
<b>Stages and discharges of Mississippi River and its outlets and tributaries, 1957-----</b>	5211	standard materials, descriptive listing-----	6801
<b>Stainless steel:</b>		scientific tests, standards, publications, price list-----	9464
adhesive bonds, relationship of polymer structure to thermal deterioration-----	13451	standardization manual M series-----	4770-71, 8928, 12587-588, 14589
flatware, trade agreement escape clause investigation-----	13639	standardization projects report, standards, specifications, studies, and handbooks-----	11023
sandwiches at elevated temperatures, compressive strength-----	10503	standards of living, and standards for trade (address)-----	272
spectral emittance of Inconel and type 321 with uncoated and ceramic-coated surfaces-----	6792	technical standard order TSO (series)-----	10098-99, 16312, 17401
<b>Stains and staining, removing stains from fabrics, home methods-----</b>	8315	<i>see also</i> subjects.	
<b>Stall (aircraft):</b>		<b>Standards Bureau, <i>see</i> National Bureau of Standards.</b>	
and flame-out resulting from firing of armament-----	16788	Standards for office holding-----	17663
airfoil, flow parameters used in computing velocity distributions, analysis-----	15081	Standby mortgage legislation, hearing-----	7629
calculated and measured stall boundaries of helicopter rotor at advance ratios from 0.3 to 0.4-----	16900	<b>Standing Rock Reservation:</b>	
nature of behavior in turbojet engine, investigation-----	987	donated Federal lands, place in trust status-----	
rotating, effect of cascade parameter-----	6786	law-----	15615
tilt-wing vtol configuration, ratio of wing chord to propeller diameter-----	15074	reports-----	14263, 16046
<b>Stamp Creek, timber and water story-----</b>	3587	<b>Standing Rock Sioux Tribe, North Dakota, <i>see</i> Sioux Indians.</b>	
<b>Stamp taxes:</b>		Standpipes, military construction-----	382
documentary-----		Stands, office machine, steel, Federal standard-----	16363
rate on issuance of shares by regulated investment companies, report-----	15858	<i>see also</i> types of stands.	
regulations under internal revenue code-----	6325	<b>Stanford University:</b>	
<b>Stamps, trading stamps and their impact on food prices-----</b>	3067	linear electron accelerator construction-----	
<i>see also</i> Migratory bird hunting stamps—Postage stamps.		authorize, hearing-----	14101
<b>Standard time, <i>see</i> Time.</b>		technical background and financial aspects of project, hearings-----	14105
<b>Standards and standardization:</b>		<b>Stankus, Sophie, relief-----</b>	5967
active standardization projects, standards, specifications, studies and handbooks-----	4753	<b>Stanley, Sinclair G., relief of estate-----</b>	4671, 7347
aeronautical and military standards-----		<b>Staphylococcus:</b>	
alphabetical list-----	17222	disease-----	
numerical list-----	2305, 10756	environmental aspects, selected materials for training hospital personnel-----	4029
commercial standard series-----	3176, 5667, 7169, 8429-32, 9678-83, 11763, 13818-822, 15443, 17274.	guide for organizing, hospital in-service training programs-----	10571
<b>Federal specifications and standards-----</b>		toxin, experiment with diffusional precipitation, USSR study-----	5099
index-----	6178	<b>Starfishes, control methods and devices used as aid to oyster industry-----</b>	4854
supplements-----	2598, 11135	<b>Stark effect, components and broadening functions for hydrogen lines, numerical values of intensities-----</b>	9395
<b>Federal standards-----</b>		<b>Starr-Camargo Bridge Co.:</b>	
9013, 10112, 12662-663, 14648-649, 16351-364, 17416.		construct bridge across Rio Grande near Rio Grande City, Tex.-----	
guide-----	16369	hearings-----	16198
<b>Federal test method standards-----</b>	6177, 10119	law-----	15708
		reports-----	15872, 16106
		views-----	16106
		<b>Stars:</b>	
		ephemeris, 1959-----	905
		ephemeris, 1960-----	17669

# JANUARY-DECEMBER

	Entry		Entry
Stars—Continued		State Taxation of Interstate Commerce Commission, establish, hearings	14559
navigational chart	1119	Statements, <i>see</i> Addresses, lectures, etc.	
6843, 10528, 17793		States:	
tables for air navigation	4942	accident fatalities, 1957	16957
Starting and managing series	4057, 17845	agencies and local officials responsible for employment and age certificate issuance	9283
State agricultural stations, report, 1958	8301	agencies engaged in agricultural extension work, donation of federally-owned property presently on loan—	
State aid, <i>see</i> Grants-in-aid.		hearings	17353
State and local government employment and payrolls	11297	report	16095
State banks:		agricultural experiment stations, Federal legislation, rulings, and regulations affecting research, etc.	3072
member banks of Federal reserve system	3480	agricultural outlook service	3075
list, supplements	2562, 11099	agriculture departments, directory, 1959	5475
membership in Federal reserve system—		aid in program planning for older citizens, manual	16476
regulations	3475, 14640	apple virus diseases, recent studies	4160
weekly changes	2564, 11101	applications asking Congress to call Federal constitutional convention	5930
State boards and departments of education, <i>see</i> Educational boards and departments.		atomic energy field, Federal-State relationships, hearings	15751
State Department:		authority to impose income taxes on business engaged in interstate commerce, limit, hearings	14559
appropriations, 1959, supplemental, proposal	7498	aviation, what States can do (address)	15505
appropriations, 1960—		census of governments, 1957, State bulletins, announcement and order form	11771
hearings	7450, 10625	climates	7000, 8270, 10634-635, 17154-159, 17889-890
law	11971	community property laws, effect on veterans' benefits and pensions	3808
reports	8640, 9998, 12130	continuity of State and local governments program to survive nuclear attack	1484
Assistant for International Cultural Relations, appointment, report	6037	control over public schools, amend constitution to reserve, hearings	16211
Assistant Secretary for European Affairs, nomination of Livingston T. Merchant, hearing	6058	cooperation in Federal rehabilitation program	17888
bulletin	2946, 11494	cooperation in regulatory jurisdiction over atomic energy—	
index	2947	law	15737
comments on mutual security program	7466	reports	15880, 16114
commercial policy series	5417, 17852	cooperation with bovine brucellosis eradication program, summary, 1959, corrected copy	15299
department and foreign service series	4066, 6942-43, 10590, 13596-597, 17085	cooperative State-Federal brucellosis, eradication program, progress report	5512
employment information	13596	curriculum guides for industrial arts, 1941-58	7667
foreign policy implementation, investigation, authorization, report	3300	dental directors, conference with P.H.S. and Children's Bureau, 1959 proceedings	17048
information and educational exchange program, report on operations	15767	distribution of public employment, 1958	4361
mutual security programs, appropriations, 1960, proposal	9810	education directory, 1958-59, Federal government and States	1596
News Division, programs of action, etc.	17085	education revenue sources	4775
organization, strengthen and improve, hearing	7612	educational records and reports series	14591, 17374
Public Services Division series S, 97, 4077, 5419-20, 10594, 17097, 15202,		elective offices, census 1957	202
publications, list	2954, 10595, 11501	announcement and order form	1460
redesignating positions and authorities—		employee-retirement systems, census of governments, 1957	5676
law	12004	announcement and order form	5674
reports	8809, 9880	employment and earnings statistics, guide	7082
releases	2937, 11505	equal-pay laws, digest	5468
Secretary, nomination of Christian A. Herter, hearing	7613		
special assistant for mutual security coordination, nomination of John O. Bell, hearing	6058		
Under Secretary, nomination of C. Douglas Dillon, hearing	7612		
Under Secretary for Western Hemisphere Affairs, establish, hearings	12534		
visa work, supplement	10590		
State finances series	5711, 7225, 13869, 17283		
State forestry, <i>see</i> Forests and forestry.			
State parks, statistics, expenditures, sources of funds, etc.	10527		
<i>see also</i> names of State parks.			

# INDEX, 1959

States—Continued	Entry	States—Continued	Entry
Federal aid highway financing—		infant mortality, 1957.....	16959
amend act—		inservice education of teachers of	
hearing.....	14557	vocational agriculture, criteria	
report.....	15886	for evaluating programs.....	14595
program, hearings.....	14361	interstate confidence racket, ex-	
Federal disaster relief manual, re-		ploitation of minors, hear-	
ports.....	14519, 14562	ings.....	7638
Federal grants—		interstate highways cost reimburse-	
air-pollution control research,		ment, Secretary of Commerce	
etc., extend act—		proposals.....	7485
law.....	15729	jurisdictional authority over land,	
reports.....	15810, 15928	restore, report.....	9988
awards by N.I.H., 1958, supple-		labor laws affecting women, Ha-	
ment.....	8106	wall.....	13668
educational television—		labor legislation affecting women,	
hearings.....	9914	report of proceeding of con-	
report.....	4719	ference.....	9556
highway program—		labor legislation, digest.....	5163
law.....	15707	labor legislation in 1958.....	1968
reports.....	15876, 16127	labor-management relations, guide,	
views.....	15876, 16127	supplement—	
interstate highways cost reim-		departmental edition.....	5168
bursement, hearings.....	12307	document edition.....	4429
juvenile delinquency prevention		laws, application in determining	
and control—		eligibility of Federal em-	
hearing.....	8729, 10051	ployees for unemployment in-	
report.....	16083	surance, report.....	4589
views.....	16083	laws, rules of interpretation gov-	
mental health program.....	5317, 6811	erning effects of acts of Con-	
school construction assistance		gress—	
act of 1959—		hearing.....	8740
report.....	16186	reports.....	8684, 8686
views.....	16186	views.....	8684
sewage-treatment works—		laws on stopping and passing	
hearings.....	7484, 12567	school buses.....	866
reports.....	7381, 8664, 14528	laws prescribing penalties for sub-	
views.....	7381, 14528	versive activities, enforce-	
to assist educational agencies to		ment—	
effect desegregation, report.....	15806	report.....	8692
Federal-State cooperation in atomic		views.....	8692
energy field, selected mate-		legislation of interest to women	
rials.....	5786	workers, 1958.....	8276
Federal-State-local relations, Dade		local school support, provisions.....	7666
County, Fla., metropolitan		manufacturing by major industry	
government, hearings.....	309	groups, statistics.....	9702
Federal-State relations to American		maritime academies, Federal assist-	
Indian—		ance, hearing.....	820
committee documents and in-		marketing service programs.....	11561
formation.....	4657	maternal mortality, 1957.....	16958
print additional copies, re-		mediation laws and agencies.....	5162
port.....	4572	mental health authorities, PHS	
fetal deaths, 1957, national sum-		conference, 1959 proceedings.....	17047
maries.....	16960	migratory labor committees, organ-	
fish and wildlife management ac-		ization, programs, etc.....	5166
tivities, donate surplus prop-		minimum wage laws and orders—	
erty, hearings.....	17353	analysis of rates and coverages.....	5467, 17894
forestry programs, cooperation with		historical development and statu-	
Forest Service.....	14739	tory provisions.....	5466
gasoline, jet fuel etc., service-sta-		provisions affecting working con-	
tion deliveries, Federal supply		ditions, 1942-59.....	13663
schedule.....	419	monthly checklist of State publica-	
governments—		tions, title page and index,	
Federal-State-local relations,		1958.....	9327
hearings.....	3325-27	natality, 1957, national summaries.....	16961
finances, 1958—		national defense education act of	
compendium.....	7225	1958—	
summary.....	5711	administration, hearings.....	5924
industrial radioactive waste dis-		area vocational education pro-	
posal, activities—		grams, suggestions.....	4778
hearings.....	12029	guide.....	3420
hearings, summary-analysis.....	14104	national forests program, estimates	
highway rights-of-way acquisition		of work needed and costs.....	10179
under Federal aid highway act,		noxious-plant control on Federal	
increase time—		lands, report.....	16045
law.....	8520	participation in emergency feed,	
reports.....	4623, 7586	seed, and roughage programs,	
hydroelectric power plants, licenses		report.....	12190
for construction, amend Fed-		payments to local governments.....	13830
eral power act—		plans for financing pupil transpor-	
law.....	12010	tation.....	1593
reports.....	7344, 12119	plans under Library services act,	
income tax on salaries of Federal		1958.....	8933
employees, amend act—		plant nutrient consumption, sta-	
law.....	15735	tistics.....	4109
report.....	14447		



# JANUARY-DECEMBER

	Entry
<b>States—Continued</b>	
population estimates, 1950-56.....	4355
public assistance, plans, staff development provisions, characteristics.....	4015
public health workers salaries.....	5385
publications, monthly checklist.....	2771
right-to-work laws.....	14968
school administration 1900-37, reports of surveys and studies by States.....	10076
school-age population, projections, 1959-63.....	8446
school construction and teachers' salaries, Federal financial support.....	
hearings.....	7462, 8905
report.....	8703
views.....	8703
school facilities funds.....	4774
school legislation, 1957.....	7664
school systems, organization, etc., statistics, 1955-56.....	8930
advance report.....	364
<b>Small Business Administration</b>	
grants for small business enterprises law, questions and answers.....	328
tax collections in 1959.....	13869, 17283
tax laws, prohibit arrestment of seamen's wages, reports.....	12256, 12393, 14301
taxation of income derived from interstate commerce—	
law.....	15089
reports.....	15798, 15865, 16047
views.....	16047
taxation on interstate commerce, effect on small business—	
hearings.....	7647, 8910, 12571
report.....	12401
Veterans' Administration to maintain regional office in each State, hearing.....	9931
vocational education boards, digest of reports.....	10079
wage payment and collection laws, administration, etc.....	16653
water rights—	
affirm laws of States west of 98th meridian, hearings.....	15947
Federal officers, etc., to act in accordance to State laws, hearings.....	15947
recognize, hearings.....	15947
withdrawals of public lands not to affect, hearings.....	15947
wildlife program, real estate transfers under surplus property act, hearings.....	17353
workmen's compensation laws, comparison.....	5178
see also names of States.	
Static brittle-fracture initiation at net stress 40% of yield.....	2125
<b>Stationery:</b>	
allowance for House of Representatives Members, etc., increase, report.....	12209
Federal supply schedule.....	414
<b>Statistical abstracts of United States: 1959—</b>	
departmental edition.....	11813
document edition.....	12041
<b>Statistical clerks, examination announcement.....</b>	<b>254</b>
<b>Statistical publications, see names of departments etc., issuing publications.</b>	
<b>Statistical summary, see Agriculture—National Labor Relations Board—Railroad Retirement Board.</b>	
<b>Statisticians:</b>	
analytical and survey, examination announcement.....	11845

	Entry
<b>Statisticians—Continued</b>	
mathematical, examination announcements.....	11834, 11841
<b>Statistics:</b>	
application to engineering problems, proceedings of annual symposium, May 7-8, 1958.....	17288
compiling, use of electronic data processing equipment, hearing.....	9920
computation and statistics system of North Korean people's economy.....	13027
government, practical business use.....	4054
market analysis, information sources, bibliography.....	17075
methodology, research and development costs and manpower.....	17790
Polish statistical bulletin.....	555
representative survey methods, Communist China.....	6495
services of U.S. Government.....	8424
statistical services, Air Force manual.....	3107, 8361
uses in classifying races of American shad.....	7746
world trade information service.....	470-
472, 1666-68, 3545-48, 4892-95, 6229-33, 7802-3, 9083-86, 10159-162, 12719-722, 14707-709, 16424-426, 17446-452.	
see also Vital statistics—also subjects.	
<b>Statostors:</b>	
axial-discharge, stage and blade-row performance.....	2034
blades for high subsonic Mach number turbine, comparison of results of studies of blade-outlet boundary-layer characteristics.....	5246
downstream, single-stage turbine design, etc.....	3901
solidity reduction, effect on performance of transonic turbine.....	3898
turbine, adjustment effect on acceleration characteristics of high-pressure-ratio single-spool turbojet engine.....	16781
Statuary, see Sculpture and statuary.	
Statue of Liberty National Monument, general information.....	17785
Status of lizard <i>Cnemidophorus perplexus</i> Baird and Girard (Teiidae).....	2064
Status of women around world, conference report.....	13666
Status of world health in outline text and chart.....	6029, 6062
Statutes, see Law.	
Stay-in-School Campaign, see National Stay-in-School Campaign.	
Steady-state response of synchronized, LC oscillator to incremental reactance changes.....	15128
Stealing, see Shoplifting.	
Steam-electric plants, see Electric power plants.	
Steam power plants, TVA, visitors are welcome.....	15232
Steam railways, see Railroads.	
Steamship conference study, hearings.....	7474, 12302, 17337
Steamships, see names of steamships.	
<b>Steel:</b>	
austenitic—	
age-hardening, foundry characteristics.....	10537
corrosive cracking at high temperatures and pressures.....	1927
brittle-fracture—	
drop-weight test machine remotely controlled studies.....	6862
tests of plates with residual compressive strain.....	17842

# INDEX, 1959

	Entry		Entry
Steel—Continued		steel (USSR periodical), abstracts	7187, 10867
corrosion in apparatus of USSR coke-chemical plants	805	structural, plates, brittle fracture propagation studies	17941
corrosion resisting, cleaning and passivation	4000	tested in Charpy machine after irradiation in materials testing reactors	16983
crucible 422, behavior in thermal fatigue process	17741	see also Stainless steel—also names of manufactured articles.	
diffusion processes at elevated temperatures, effect of ultrasound, USSR studies	1925	Steel castings, see Castings.	
drop-weight test, normalization procedures	8989	Steel containers, see Containers.	
forgings—		Steel mills:	
commercial summary for 1958, facts for industry	4356	products, facts for industry	15480
facts for industry	2371, 10902	waste oil from rolling mills, recovery for abating stream pollution	9337
foundries, facts for industry	2371, 10902	Steelhead trout, see Trout.	
foundries and ingot producers, facts for industry	11810	Steichen, Edward J., advancement on Naval Reserve retired list	7502
fracture, mathematical analysis	3990	Steinberg, Angelina C., relief	7508, 13911
German industry, economic efficiency, study	1792	Stella Reorganized Schools, R-1, Missouri, lease portion of Fort Crowder, Mo., reports	12054, 16125
industry, administered prices, hearings, additional copies, reports	12511A, 14277	Stellarators:	
report, additional copies, reports	12512, 14278	model C facility, proposed, reexamination of conceptual design	11731
industry—		toroidal, equilibrium	15413
employment and earnings, recent developments	8010	vacuum magnetic fields in torus with multipolar windings	4321
outlook for 1959 and review of 1958	1450	Stenographers:	
Poland	680	government publications, list	15158
labor dispute, report to the President by Board of Inquiry	17819	prediction of success in courses	3
low-alloy—		Stephanon, Androula N., relief	5958, 11901
air-hardening, crack propagation tests	17804	Stephanon, Androula Kyriacou, see Stephanon, Androula N.	
ceramic coatings development with high reflectivities and emissivities for use in aircraft power plants	15361	Stephen F. Austin Experimental Forest, managing	3585
mechanical properties, effect of dynamic preloads, studies	13518	Stereophotogrammetric instrument, building in USSR	638
metallurgy—		Sterilization:	
use of natural gas-air burner for top-fired preheater	17711	food—	
USSR quality	12907	detect formation of toxic agents during radiation, USSR study	6524
minerals yearbook chapter	16703	radiation, correlation of chemical changes associated with characteristic flavor development	4037
Mines Bureau research projects, description	13341	radiation, chemical and organoleptic changes in carbohydrates and proteins	4035
open-hearth and electric-furnace, comparative economics of smelting in foundry production, USSR	3686	Sterilon Corp., relief	4529, 5982, 7294
postwar inflation, study paper	17318	Sternberg Astronomical Institute, fundamental gravimetric station, USSR	1808
price increase, 1958, hearings	5392	Steve, John, relief of estate	14190
production, etc., 1958	13341	Stevens County, Wash., gold, silver, copper, lead, and zinc, mine production, 1902-56	1986
production in USSR	14844	Stewards:	
products—		1 & C. Navy training courses	9432
identification marking, Federal standard	10112	3 & 2. Navy training courses	2080
preparation for shipments and storage, military standard	8926	Stibnite, see Antimony.	
rolled stock production, developments, USSR	12908	Sticklebacks, threespine, in Karluk Lake and Bare Lake, Kodiak Island, Alaska, life history	10130
SAE 4130, axial load fatigue tests	16915	Sticks, remover for cotton glass	5333
scrap—		Stiffness, torsional, cantilever plate subjected to thermal stresses, effects of large deflections and initial twist	2020
minerals yearbook chapter	15000	Stiglic, Victor, relief	14164
monthly report	11352	Still-birth, fetal deaths, United States, etc., 1957	16960
scrap dealers, technological and competitive problems—		Stillhouse Hollow Dam:	
hearing	16227	designating—	
views	17348	law	15672
sheet, high strength, crack propagation tests	5351	reports	14237, 14544
ship plates—		Stilling basins, SAE, structure to dissipate destructive energy in high-velocity flow from spillways	5327
electron microscope techniques for study of fractured surfaces	5402		
notch-toughness properties as evaluated by van der Veen notched slow-bend test	17840		
static brittle-fracture initiation at net stress of 40% of yield	2125		

# JANUARY-DECEMBER

	Entry
Stimulus, inhibitory, gradual intensification effect on positive conditioned reflexes, USSR studies.....	1896
Stitches, seams, and stitching, Federal standard.....	16364
Stitching, <i>see</i> Sewing.	
Stock catalogs, <i>see</i> Catalogs—Government supplies.	
Stock exchanges, transactions, statistical releases, SEC.....	2931, 11475
Stock funds, <i>see</i> Air Force Stock Fund.	
Stock ranges, <i>see</i> Range lands.	
Stockpiling, <i>see</i> Strategic materials.	
Stocks:	
bonus plans, tax exemption, procedures and guides for qualification under internal revenue code.....	7872
divested, pursuant to orders under antitrust laws, tax treatment—hearings.....	12322, 12531
report.....	15882
Federal reserve banks, increase or decrease of capital stock, etc., regulations.....	3476, 14641
income tax treatment of certain stock held at death, report.....	15826
registered, loans by banks for purchasing, etc., regulations.....	9010
amendments.....	3479, 14644
registered on national securities exchange list.....	10109
stamp tax rate for regulated investment companies, report.....	15858
<i>see also</i> Securities.	
Stockyards:	
Fort Worth, proposed facilities, operations, services, 1955.....	4177
livestock terminal markets in United States.....	4180
packers and stockyards act— as it applies to livestock dealers.....	13679
auction markets, application.....	3016
P. and S. docket.....	2216, 10671
terminal, cattle pens, cleaning methods and equipment.....	17172
Stokers (mechanical):	
production and sales, 1958, facts for industry.....	5696
Stomach:	
contents of Bering Sea king crab— ulcer, death rates by age, color, and sex, 1949-51.....	10136
and sex, 1949-51.....	15104
Stone:	
crushed and broken, production, etc., 1958.....	6656, 15022
crushed granite, methods and practices for producing.....	917, 5187
cutting and polishing, tools and methods used in art and industry.....	922
dimensions, output increases, 1958.....	16714
minerals yearbook chapters.....	945, 17717
products manufacturing plants— labor turnover rates per 100 employees.....	8000
location by county and employment size.....	7221
Stonington, Maine:	
harbor improvement, engineer report— departmental edition.....	6106
document edition.....	5802
Stopnitsky, Harry, and wife, relief.....	12059, 14409, 15578.
Storage:	
depots— coconong storage for quarter-master supplies.....	10573
engineering manual.....	16265
marking, military standard.....	1583
naval facilities data, policies, and practices to assure uniformity.....	17898
technical manual, changes.....	3151, 5629

	Entry
Storage—Continued	
<i>see also</i> Cold storage— <i>also names</i> or classes of articles stored.	
Storage batteries:	
alkaline, silver oxide-zinc, effect of float and normal charges on capacity and related characteristics.....	2081
heavy duty electric, Federal supply schedule.....	10113
movement in international trade.....	11765
primary and secondary cells, theoretical design.....	1052-533
Storekeepers, <i>see</i> Aviation storekeeper.	
Stores:	
department stores— credit, monthly reports.....	2575, 11112
inventory price indexes.....	9293
merchandising data, monthly reports.....	2576, 11113
sales, annual distribution by months, 1958.....	6162
sales, monthly reports.....	2585, 11122
sales, selected cities and areas, weekly percentage changes.....	2595, 11132
sales, weekly indexes.....	2593, 11131
sales and stocks, monthly reports.....	2584, 11121
stocks, monthly reports.....	2586, 11123
food, maximum retail profit based upon optimum inventory turnover.....	7029
personnel, from false arrest suits in shoplifting offenses in D.C.....	7408
retail— appearance, sales builder or barrier?.....	8220
food, packaging and price-marking produce, improved methods of marketing, study.....	100
food and beverages supplies, civil defense study.....	105
fruits and juices, availability— managers, balanced skills, measure of effectiveness.....	9575
operating costs and ratios.....	6932
small, essential personal qualities for managers.....	13582
supermarkets— American progress (address).....	17076
tray display of produce, equipment specifications.....	70
wholesale— institutional grocers, policies and practices.....	27
operating costs and ratios.....	9612
<i>see also</i> Shopping centers.	13583
Storm doors, metal combination windows and doors, survey.....	15450
Storm windows, metal combination windows and doors, survey.....	15450
Storms:	
coastal warning facilities charts— Canadian border to Eureka, Calif.....	15238
Cape Hatteras to Brunswick, Ga., 1959.....	2174, 15239
eastern Florida, 1959.....	15240
Eastport, Me. to Montauk Point, N.Y.....	7001
Eureka to Point Conception, Calif., 1959.....	15241
Hawaiian Islands, 1958.....	13661
Manasquan, N.J. to Cape Hatteras and Chesapeake Bay, 1959.....	5460
Montauk Point, N.Y. to Manasquan, N.J.....	5461
Morgan City, La. to Apalachicola, Fla.....	2175, 15242
Morgan City, La., to Brownsville, Tex., 1959.....	15243

# INDEX, 1959

	Entry		Entry
Storms—Continued		Strains and stresses—Continued	
coastal warning facilities charts—continued		shear stresses exerted on smooth bottom by passage of oscillatory water waves.....	17387
Point Conception, Calif., to Mexican border, 1959.....	15244	sheet steel, low-alloy air hardening, crack propagation tests.....	17804
Puerto Rico and Virgin Islands, 1959.....	9546	simply supported sandwich beam, nonlinear theory.....	17458
data, monthly.....	11544	spheres, impact penetration into copper targets, high-speed investigation.....	5222
drainage systems at Naval activities, principles, etc., for design, construction, maintenance.....	10640	spherical propagation of explosion-generated strain pulses in rock.....	13366
microseismic program of Navy, terminal report.....	9742	static strength and creep buckling of unstiffened circular cylinders subjected to bending at elevated temperatures, determination.....	10505
preventing, modern possibilities.....	812	strain absorption—	
small craft, gale and whole gale warning facilities chart, Great Lakes, Huron, Erie and Ontario, 1959.....	8271	absorption potential as criterion for determining optimum reactor-vessel containment design investigation.....	2097
see also Cyclones—Tornadoes.		explosion-generated strain pulses in rock.....	17710
Strains and stresses:		strength of thin-wing construction structural stability handbook.....	16926
acoustic fatigue of aluminum panels exposed to random and discrete noise.....	13439	stresses in wood during drying—	7815
aerodynamic heating and fatigue of aircraft structures.....	10504	structural—	
buckling—		behavior and maximum bending strength of 6 multiweb beams with 3 types of webs, investigation.....	9376
curved plates and structural stability, handbook.....	16927	compression loads at elevated temperatures, lifetime theoretical determination.....	6768
cylinders of sandwich construction, design curves.....	14715	coupled natural frequencies and mode shapes of dynamic model, experimental studies.....	1083
sandwich panels, compressive buckling curves.....	7816	load response in rough air at transonic speeds of rocket-powered models, characteristics.....	6731
sandwich panels subjected to edgewise bending.....	9098	pole frames under test load, performance.....	1680
creep collapse of columns, theoretical analysis.....	16909	rotor blade bending moments and flapping angles, effect of flapping-hinge offset.....	6775
determination from structural measurements, Hungry Horse Dam.....	9478	tensile properties—	
effect on glass reinforced polyester laminates.....	8164	molybdenum and tungsten.....	5298
fatigue—		preloading effect of glass-fabric-base epoxy laminate.....	14716
aircraft materials.....	16915	3 thermoplastics over 6 decades of rate.....	13537
aluminum alloy notched cantilever-beam specimens, random loading effects, investigation.....	10490	tungsten at high-temperatures.....	16904
damage in aluminum alloys, early detection by ultrasonics.....	15366	tension tester, high rate.....	6883
fatigue-crack propagation for aluminum alloys under completely reversed loading.....	16891	thermal fatigue—	
high-purity aluminum, effect of rest periods.....	1084	behavior of crucible 422 steel.....	17741
strength of core materials used in sandwich construction apparatus for measuring.....	4903	cracks in turbine buckets caused by engine operating conditions.....	8079
tests of glass-fabric-base laminates subjected to axial loading, effect of notches.....	4904	ductile materials.....	17741
fracture strengths relative to onset and arrest of crack propagation.....	3990	thermal stresses—	
gust loads for missile operations, estimating problem.....	1092	deflections and initial twist effects on torsional stiffness of cantilever plate.....	2020
internal, in drying wood, method of calculating.....	4910	fatigue cracking of turbine buckets in turbojet engine.....	16917
multiweb wing structures heated in free jet, tested at Mach. No. 2, etc.....	1076-77	minimum-weight analysis of symmetrical-multiweb beam structures.....	17748
optimum parametric constants for stress-rupture data, method utilizing least squares.....	6784	sandwich panels, errata.....	6751
panels subject to intense random acoustic loading including near noise field of turbojet engine.....	8063	torsion of rectangular sandwich plate.....	17454
plane, application to determination of stress concentration factors, analogy.....	13649	torsional stiffness of thin wings, effects of cross-sectional shape, solidity, and distribution of heat transfer coefficient.....	5276
Prot test method application to stress-rupture curves of glass-reinforced plastic laminates.....	487	turbine blades, thermal shock induced by external water-spray cooling.....	1006
reliability stress analysis for electronic equipment, design guide.....	2127	vibratory on propeller, flight measurements.....	1098



# JANUARY-DECEMBER

	Entry
<b>Strains and stresses—Continued</b>	
wing strains due to gusts, effect on flexibility	6680
working stresses for structural design, engineering manual	8957
Yankee core support structure model, stress analysis	5652
see also Poisson's ratio.	
Strait, see name of strait.	
Strasbourg Conference, 2d, Council of Europe, invitation to Congress, reports	7549, 7567
<b>Strategic materials:</b>	
stockpile report—	
Jan.-June 1958	3200
July-Dec. 1958	8460
Jan.-June 1959	15510
stockpiled, authority of the President to release, opinion of Attorney General	5158
stockpiling policy, effect on mining and mineral industries—	
establish national policy—	
report	16157
views	16157
expressing sense of Congress—	
hearings	12295
reports	12204, 14290, 16158
views	16158
<b>Stratigraphy:</b>	
area between Hernando and Hardee Counties, Fla.	14747
Colorado Plateau region, Triassic and associated formations	16457
Pacific Coast region and Alaska, utility of pelecypod Aucella for mapping rock units	7853
Smoke Creek, Medicine Lake-Gretnora area, Mont. and N. Dak.	7848
west-central Florida, middle Tertiary rocks	17487
<b>Stratosphere:</b>	
fallout, particularly Russian Oct. 1958 series	11746
meteorology, contributions	1354
nickel in cosmic dust, observations	11671
presence of radioactive aggregates	7108
Strauss, Lewis L., nomination, hearings	8898
<b>Strawberries:</b>	
culture, south Atlantic, etc., regions	87
diseases	17193
Louisiana, precooling and shipping	15320
varieties in U.S., general information	88
<b>Stream pollution, see Water pollution.</b>	
<b>Streams, see Rivers.</b>	
<b>Strength of materials:</b>	
concrete, molded cylinders and drilled cores, investigation	16275
impact tests of full-tempered glass windshield panels	4802
spliced studs, tests	16432
see also names of materials and articles.	
<b>Stresses (mechanical), see Strains and stresses.</b>	
<b>Strikes and lockouts:</b>	
steel industry, report to the President by Board of Inquiry	17819
work stoppages, 1958, analysis—	
departmental edition	1660
document edition	15765
work stoppages, 1958, final tabulations	9322
work stoppages, monthly reports	2761, 11300
Strong, John I., relief	12087, 13988, 14420

	Entry
<b>Strontium:</b>	
determination in natural water, survey of analytical methods	9129
materials survey	16702
minerals yearbook chapter	10461
program of Health and Safety Laboratory, quarterly reports	4313, 8398, 15401, 17262
USSR, radioactive, effect on self-purification process in water reservoirs, data	827
<b>Strontium isotopes:</b>	
problem, conference, Moscow, Dec. 1958	13263
radioactive, excretion, effect of complex-formers, USSR studies	5106
<b>Sr-89—</b>	
elimination, influence of parathyroecrine, campholone, and sodium citrate	5123
intravenous administration, changes in nervous system of dogs in acute radiation sickness, USSR study	14926
<b>Sr-90—</b>	
biological effect on organism, USSR study	1933
contamination of fish	13796
early changes in dogs' skeletons following irradiation, USSR study	14924
fallout measurement program, quarterly reports	4313, 8398, 15401, 17262
measurement in polar snow cores, precipitation, etc.	7107
penetration through placental and mammary barriers, USSR study	14941
plankton as indicator of pollution of fresh water reservoirs, USSR studies	1868
<b>Structural adhesives, see Adhesives.</b>	
<b>Structural clay, see Clay.</b>	
<b>Structural designs, see Architecture—Design (Industrial.)</b>	
<b>Structural materials, see Building materials.</b>	
<b>Structural steel, see Steel.</b>	
<b>Structures, see Strains and stresses.</b>	
<b>Struts (aircraft):</b>	
yawed, flow ventilation about surface-piercing soils, exploratory study	6765
<b>Strychnine, therapeutic action, problem in acute radiation sickness in rats and mice, USSR study</b>	10381
<b>Students:</b>	
Bulgaria, atheistic education, content and forms of training	14046
college—	
living arrangements, population characteristics, census	5678
scholarships and other financial aids	9315
employment in 1958	9707
employment under fair labor standards act	5459
foreign, in U.S. military service schools, guide	17369
graduate, national defense fellowship program	7670
groups visiting Washington, D.C., places of interest, general information	6825
guide for bookkeeping and accounting I	14583
high school—	
drop-outs, America's growing problem	10395
Navy graduate program, incentive to complete education	8140

# INDEX, 1959

	Entry		Entry
<b>Students—Continued</b>		<b>Submariners:</b>	
higher education—		disqualification correlates.....	10421
national defense loan program.....	7671	habitability, feasibility of using	
list of participating institu-		algae in air purification.....	1125
tions, 1958-59.....	6098	Subsidies, <i>see</i> names of commodities,	
research participation and train-		industries, etc.	
ing programs, NSF, 1960-61.....	16970	Subsistence, Federal supply sched-	
junior year science and mathemat-		ules.....	1633, 3486, 4841, 12675
ics, fall 1958, survey.....	16252	Subsistence allowance, <i>see</i> Pay, allow-	
national defense loan program—		ances, etc.	
general information and instruc-		Subsonic flow, <i>see</i> Flow.	
tions, manual.....	1597	Subsonic speed, <i>see</i> Air speed.	
questions and answers.....	4779	Substances screened for ability to re-	
personnel workers preparation pro-		duce thermal resistance of bac-	
gram, status.....	4773	terial spores.....	17186
phasic states of excitability of cere-		Substituent effects of stability of	
bral cortex as related to		metal chelates.....	180
psychological characteristics,		Subversive activities, <i>see</i> Un-Ameri-	
USSR study.....	14935	can activities.	
prospective students from other		Subversive Activities Control Board:	
countries, guide.....	16260	code of Federal regulations.....	6151
public schools—		final orders with respect to commu-	
small and medium-sized cities,		nist organizations, make appli-	
current expenditures per pupil	863	cable to successors, report.....	15878
urban systems, 1957-58, current		report, 1958.....	2159
expenditures per pupil.....	16255	Successful Ho-Ping No. 28, China.....	8672
publications on mental health, se-		Succession and speculation of pelecyp-	
lected reading list.....	5318	pod Acella.....	7853
pupil transportation—		Suction and pressure apparatus:	
characteristics of State plans for		heating PRK-50 pressure chamber,	
financing.....	1593	USSR study.....	12931
selected references.....	6101	suction reclaimer for shattered seed	7033
school enrollment, population char-		Sudan:	
acteristics, census.....	5678	agricultural economy.....	446
secondary schools, approach to in-		economic developments, 1958.....	7774
dividual analysis in educa-		economy, basic data.....	4872
tional and vocational guid-		guaranty of private investments,	
ance.....	1591	agreement.....	8250
summer jobs—		Sugar:	
general information.....	7676	act—	
programs for community groups.....	7972	administration, facing future	
summer science training for high-		(talk).....	5768
ability secondary school stu-		benefits (notes used in address).....	113
dents, NSF program, announce-		determinations of prices, shares,	
ment.....	6838	and wage rates.....	2437, 10970
thinking about your first job? re-		distribution by refiners, etc.....	2434
member Uncle Sam.....	3229	foreign agriculture circulars.....	2643, 11182
trainees, examination announce-		industry, production, processing,	
ments.....	1487, 5728, 13891	marketing in U.S.....	3066
supplement.....	13893	marketing margins.....	15316
transition from school to work,		payments and quotas, statutes, com-	
study of school leaver (paper)	13300	pilation.....	3048
<b>Study Commission on Development</b>		plants yielding, production, Soviet	
of Rivers, Ports and Drain-		abstracts.....	739
age Basins of Alaska, <i>see</i>		requirements and quotas.....	2438, 10971
United States Study Commis-		statistics, domestic sugar areas.....	5537
sion on Development of Rivers,		sugar reports.....	2433, 10966
Ports, and Drainage Basins of		sugar situation.....	4148
Alaska, and intervening areas.		Virgin Islands Corporation, eco-	
<b>Style manual:</b>		nomic appraisal of operations.....	15944
Government Printing Office—		Sugar beets:	
abridged edition.....	6300	facing future of sugar act admin-	
complete edition.....	3607	istration (talk).....	5768
Subalpine fir, <i>see</i> Fir.		industry (address).....	5521
Subcontracts, <i>see</i> Government con-		Sugar maple, <i>see</i> Maple.	
tracts.		Sugarcane, crosses, breeding behavior	
Subject headings, Library of Con-		of agronomic characters in	
gress.....	2777, 11318	progenies.....	4195
Sublimation, non-volatile solids, en-		Sulcide, death rates by age, color, and	
trainment at reduced pressure.....	3159	sex, 1949-51.....	15111
Submarine boats:		Sults, men's and boys', manufactur-	
loan to Turkey, agreement.....	17866	ing industry, wage structure.....	6629
loans to Italy and Turkey, extend-		Suits at law, <i>see</i> Actions at law.	
hearings.....	4641, 12525	Sukabumi, labor force survey, city	
law.....	11958	and regency.....	599
reports.....	4600, 5857, 8819	Sulfates, <i>see</i> Copper sulfates.	
nuclear, naval program, hearings.....	12030	Sulfides, <i>see</i> sulfides by name, e.g.	
propulsion, use of atomic energy,		Cassiterite sulfide.	
1958 status, etc.....	13795	Sulfidization method for treatment of	
recognition manual.....	16977	poor tin raw material.....	1786
Submarine cables:		Sulfite pulp, <i>see</i> Wood pulp.	
data from carriers' reports.....	2521, 11057		
underwater cable guidance system.....	6981		
Submarine topography, Saipan.....	12767		

# JANUARY-DECEMBER

	Entry
<b>Sulfur:</b>	
deposit, Plaseczno, Poland, mining methods, etc.	3688
industry in California and Nevada	16694
minerals yearbook chapter	16735
native and recovered, monthly reports	2822, 11364
production, etc., 1958	13356
radioactive, use for production of anthrax bacilli, USSR study	14861
rain water and atmosphere in Southern States content as related to crop needs	4197
<b>Sulfur dioxide:</b>	
concentration in air of Leningrad, seasonal variations and meteorologic factors	7950
removing from flue gases by liquid scrubbing processes, cost estimates	9352
<b>Sulfuric acid:</b>	
byproduct output, 1958	6659
facts for industry	9723
<b>Sully Plantation:</b>	
buildings at Chantilly, Va. airport site, maintain for historical purposes	
hearings	12297
law	14072
reports	12206, 14500
<b>Sulph, see certain headings beginning Sulf.</b>	
<b>Sulphate pulp, see Wood Pulp.</b>	
<b>Sulvanite</b> from Elay-anthroxolite slate horizons from Karatau and Dzhirgatal Mountains	1778
<b>Sumatra, sailing directions, change</b>	17501
<b>Su-Ming Tseng, see Tseng, Su-Ming.</b>	
<b>Summer employment, see Employment.</b>	
<b>Summit Lake Indian Reservation:</b>	
adding public domain lands	
law	9770
reports	6016, 8644
<b>Sun:</b>	
solar absorption lines, Doppler width studies	8222
solar activity, Soviet-bloc IGY literature translations	7900
solar-geophysical data	2848, 11389
solar radiation	
bactericidal effectiveness in polluted atmospheric conditions	5127
papers	2132
penetrating room, bactericidal significance, USSR studies	1904
shortwave, rocket investigations, literature translations	7891
silicon photocells as converters, investigation	13758
ultraviolet, dosimeter for measuring	12963
solar spectral intensity measurements from eclipse at 3600A-6400A wavelengths, Oskarshamn, Sweden	8146
<i>see also Eclipses.</i>	
<b>Sun glasses, see Spectacles.</b>	
<b>Sunflower County, Miss., soil survey</b>	9501
<b>Sunspots, and flare statistical data</b>	8221
<i>see also Solar flares.</i>	
<b>Superior, Lake:</b>	
district, accidents in open-pit iron-ore mines, beneficiation plants, and shops	8032
limnological data, 1951-57	14673
<b>Supermarkets, see Stores.</b>	
<b>Superphosphates, see Phosphates.</b>	
<b>Supersonic flow, see Flow.</b>	
<b>Supersonic inlets, see Air inlets (aircraft).</b>	
<b>Supersonic speed, see Air speed.</b>	
<b>Supervisors:</b>	
bookkeeping machine unit, examination announcement	5734

	Entry
<b>Supervisors—Continued</b>	
case studies for training, index	263
development conference series, effective 2-way communication	13655
employee interviewing and counseling, improving skills, conference leader's guide	877
extension supervision, criteria and performance	16315
home economics, list	4777
human relations—	
supervision, improving, conference leader's guide	876
training	876
importance of supervision in distributive education instruction	16261
management course, pamphlet series available from Superintendent of Documents	10559
<b>Supplemental appropriations and estimates, see Appropriations.</b>	
<b>Supplies, see Agricultural supplies—</b>	
Dental supplies—Government supplies—Hospital apparatus and supplies—Military supplies—Office supplies.	
<b>Supplies and Accounts Bureau, research and development reports</b>	4100, 13635
<b>Supply and demand:</b>	
commercial fisheries—	
Jan.-Mar. 1959	4857
July-Sept. 1959	14664
demand and price situation	2200, 10057
Supply catalog, <i>see</i> Federal supply catalog.	
<b>Supply clerks, examination announcement</b>	254
<b>Supply schedule, see Federal supply schedule.</b>	
<b>Suprarenal bodies, see Adrenal glands.</b>	
<b>Supreme Court:</b>	
cases adjudged—	
Court of Claims cases	8913
official reports	2961, 11509
tax cases decided, Oct. term, 1957	17345
United States reports	1209, 17877
Journal	2960, 11508
labor issues before (address)	10951
<b>Sureties, see Bonds of officers, etc.—</b>	
Guaranties and sureties.	
<b>Surf, see Waves.</b>	
<b>Surface active agents, adsorption of soluble fluorocarbon, derivatives at organic-liquid/air interface</b>	8145
<b>Surface phenomena in solids, literature review</b>	17006
<b>Surface pressure distribution at hypersonic speeds for blunt delta wings at angle of attack</b>	9380
<b>Surface tension, fluorinated organic compounds at organic liquid/air interfaces</b>	6857
<b>Surface water, see Water.</b>	
<b>Surface water supply, see Water supply.</b>	
<b>Surfaces:</b>	
roughness—	
boundary layer transition—	
caused by effect of highly favorable pressure gradient	6754
measurement on hemisphere	5301
effect on characteristics of spherical shock waves	3915
values preferred for Army ordnance material, military standard	12585
<b>Surge (aircraft):</b>	
nature of behavior in turbojet engine, investigation	987

Do not order from index; see indicated entry

Page 465

# INDEX, 1959

Entry	Entry
Surgeon General, Navy, <i>see</i> Medicine and Surgery Bureau, Navy.	
Surgeon General, Public Health Service, <i>see</i> Public Health Service.	
Surgeons:	
Navy flight surgeon, who, what, why, where, how, when-----	6643
tasks in USSR-----	16633
Surgery:	
antibiotics, use-----	807
benefits for OASI beneficiaries-----	
hearings-----	15977
hearings, additional copies, report-----	15908
cybernetics use, USSR study-----	12836
neurosurgery in World War II-----	1373
status of surgical services in USSR-----	16633
treatment of wounds of soft tissues in radiation sickness, USSR study-----	6521
Surgical dressings, <i>see</i> Bandages and bandaging.	
Surplus agricultural products, <i>see</i> Agricultural products.	
Surplus Government property, <i>see</i> Surplus property.	
Surplus property:	
act of 1944 and amendments, compilation-----	17321
donations to-----	
Alaska, hearings-----	17353
Indian tribes, hearings-----	17353
libraries, report-----	17353
libraries and institutions for mentally retarded children, report-----	16101
New Mexico Boy's Ranch, hearings-----	17353
parks or for recreational purposes, hearings-----	17353
recreation agencies, hearings-----	17353
States and county agencies engaged in cooperative agricultural extension work-----	17353
hearings-----	16095
report-----	17353
States for fish and wildlife activities, hearings-----	17353
volunteer firefighting organizations-----	17353
hearings-----	14247
report-----	17353
welfare agencies, hearings-----	17353
educational organizations may take overseas, hearings-----	17353
foreign excess, importation, hearings-----	3328
real estate transfers for wildlife purposes, hearings-----	17353
<i>see also</i> Personal property.	
Survey of current business, monthly-----	2348
Survey of field of mechanical translation of languages-----	10879
Surveying:	
Communist China, report on exhibition-----	6878
geodetic triangulation, manual-----	17614
geological-----	5754
methods of conducting, generalization of experience conference results-----	813
relationship between exploration and prospecting-----	5154
leveling corrections due to force of gravity, Hungarian study-----	3714
long-range perspective of scientific work in Central Administration of Geodesy and Cartography, Czechoslovakia-----	5028
Peking to Canton, observations-----	567
tellurometer manual-----	7248
Surveying--Continued	
topographic, prerequisite for cartographic terrain representation, German studies-----	3704
triangulation, continental network, adjustment, Hungarian studies-----	6408
<i>see also</i> Photographic surveying.	
Surveys, <i>see</i> Community surveys--Social surveys-- <i>also</i> subject of surveys.	
Survival:	
air crews, evasion and survival behind enemy lines, test for prediction of performance, CREWSCAT problem form and manual, erratum-----	4265
Air Force manuals-----	9625-26
atomic, technical consideration of measures, hearings, excerpt-----	13864
civil defense over-all problem (address)-----	17203
naval aviation survival equipment, obtaining, handling, etc., manual-----	8279
nuclear attack, factual information-----	17205
Survivors, insurance, <i>see</i> Old-age and survivors insurance--Social security.	
Susanville Research Center, description, etc., guide-----	16434
Suspended sediment sampling in laboratory wave action-----	17385
Sutter, John B., relief-----	8570, 15948, 14396
Sutton, Alaska, haydite raw material in area-----	16456
Sverdlovsk, Russia, 4th conference on analysis of precious metals, report-----	1776
Swamplands, coniferous, reproduction in cutover areas, growth study-----	7826
Swampquarter National Wildlife Refuge, birds-----	14668
Sweden, labor-management relations, centralization of bargaining since 1939-----	5174
Sweet corn, <i>see</i> Corn.	
Sweetclover, general information-----	3059
Sweetgum:	
blight, forest pest leaflet-----	6241
irrigation lessens blight-----	10184
Sweetpotatoes:	
acreage-marketing guides-----	3009
acreage, yield, etc., by States and seasonal groups, 1957-58-----	15270
diseases-----	17191
market diseases-----	8306
Sweetwater Basin, airborne radioactivity survey-----	15415
Swimming, health information series-----	8190
Swimming pools, disease control through proper design and operation, training manual-----	10572
Swimsuits, <i>see</i> Bathing suits.	
Swindles, <i>see</i> Fraud.	
Swine:	
breeds-----	3052
comparison of 2 methods of estimating backfat thickness in live hogs-----	9573
emergency payments for light-weight hogs-----	15935
hearings-----	15850
report-----	6358
fattening hogs in China, improved methods-----	2282
garbage-feeding, national status on control-----	10734
housing, estimating cooling loads for air conditioning-----	13710



## JANUARY-DECEMBER

	Entry		Entry
Swine—Continued		Szechwan CCP directive on collective	
internal parasites	5532	life, welfare and village rest	
meat-type hog production and mar-		periods for peoples communes	
keting		(Dec. 4, 1958) Communist	
hearings	14329, 15935	China	10326
report	15850	Szechwan Province, new Karamay	
pig crop reports	2255, 10707	oil region	552
production, methods, problems, etc.	89		
Switches, see Electronic switches.			
Switzerland:			
atomic energy cooperation for civil			
uses, agreement	13619		
economy, basic data	1654		
establishing business	12706		
exports and imports, licensing and			
exchange controls	12716		
preparing shipments to	3542		
scientific research, night vision de-			
vices use in police service	6022		
Sylvania Gnyot, Lower Eocene phos-			
phatized Globigerina ooze,			
mode of occurrence, mineral-			
ogy, etc.	9119		
Symbols, used in national union cata-			
log, Library of Congress	10414		
see also Maps and charts.			
Symposiums:			
air navigation system	1323		
atomic energy fields, literature			
search	5649		
D <sub>2</sub> O-moderated power reactors	15427		
demographic and sociological as-			
pects of scientific manpower	17791		
free radical stabilization, trapped			
radicals at low temperatures	13459		
gas-cooled power reactors, Oak			
Ridge National Laboratory,			
Oct. 21-22, 1958	4331		
health experience and practices in			
uranium industry	17251		
health physics	15426		
technical methods	15428		
nuclear merchant ship, 1958, pro-			
ceedings	4330		
operating the jet, CAA report	3390		
reactor fuel measurement tech-			
niques, papers presented	4328		
space law	3807, 16230		
statistical engineering, annual, pro-			
ceedings May 7-8, 1958	17288		
supervoltage radiation therapy	11760		
uses of radioactive isotopes in met-			
allurgy	1374		
Synchros, Navy, description and op-			
eration	3998		
Synopsis of Government proposed			
procurement and sales con-			
tract awards	2340, 10868		
Synoptic meteorology, see Meteorol-			
ogy.			
Synthesis on basis of acetylene,			
USSR	629		
Synthetic fibers, see Fibers.			
Synthetic fuels, see Fuel oil.			
Synthetic liquid fuel, see Fuel oil.			
Synthetic organic chemicals, see Or-			
ganic compounds.			
Synthetic rubber, see Rubber.			
Synthetic woven goods, see Textiles.			
Syphilis:			
and its sequelae, death rates by			
age, color, and sex, 1949-51	3964		
description, cure, etc.	9470		
serologic tests, 1959 manual	10570		
Syria, economic developments, 1958	7796		
Systems, complex, planning philos-			
ophy	16988		
see also names or types of systems,			
e.g. Electronic data processing			
systems.			
Szabo, Lilla A., relief	9966, 13969, 14149		

# INDEX, 1959

	Entry		Entry
Tail (aircraft)—Continued		Tankage:	
horizontal—continued		production—	
shock-wave interference at		in 1958.....	3025
Mach 1.9.....	1005	in 1959.....	13699
sweptback, longitudinal aerody-		Tankers:	
namic characteristics of model		boiling water reactor propulsion	
at transonic speeds.....	16820	plant, design.....	7144
use for roll control.....	6739	fire fighting manual.....	1501
zero-angle-of attack transonic		nuclear powered, probabilities (pa-	
drag associated with vertical		per).....	13797
position at zero incidence, ex-		38,000-dwt, OMR-powered, refer-	
perimental study.....	1055	ence design and engineering	
in-line surfaces, lift, drag, longi-		drawings.....	7147
tudinal stability of rocket-pow-		Tanks, milk, cooling, on farms of	
ered model.....	16821	producers in Federal order	
low-speed measurement of contribu-		markets, survey.....	11564
tion to rolling stability deriva-		Tanning and tanning materials:	
tives and air-flow angularity		extracts from cannalgre roots.....	13712
including some effects on wing-		hemlock extracts, decoctions, prep-	
tip stores.....	1064	arations, free importation,	
tail-wing-fuselage combinations—		temporary—.....	15653
body contouring effect on longi-		law.....	14524
tudinal characteristics.....	2022	reports.....	14255
45° sweptback wing, experimen-		see also Leather, hides and skins.	
tal study at high subsonic		Tannins:	
speeds of several configura-		cannalgre, potential source.....	7067
tions.....	16844	cannalgre roots, potential source of	
longitudinal characteristics, ef-		extracts.....	13712
fect of wing fences.....	15046	Tantalum:	
longitudinal characteristics of		in 1958, preliminary report.....	939
low-wing configuration.....	15047	industry, outlook for 1959 and re-	
static lateral and directional		view of 1958.....	1453
stability and tailloads charac-		minerals yearbook chapter.....	1492
teristics of model having		Minas Bureau research intensifica-	
highly tapered swept wing of		tion.....	13329
aspect ratio 3 and 2 horizon-		production, etc., 1958.....	10438
tal tail positions investigation		slow neutron resonances.....	17249
at high subsonic speeds.....	17732	Tape recorders, magnetics systems,	
static longitudinal stability		drop-outs, classification and	
characteristics at transonic		counting.....	8143
speeds of 30° sweptback wing.		Tar:	
swept wing fighter-type airplane		low-temperature—	
with 3 different vertical tails,		review and status, RM Investi-	
time-vector determined lateral		gations.....	8033
derivatives.....	15055	selected bibliography.....	8028
vertical-tail size, effect on rolling		Tar roofing, see Roofing.	
behavior of swept-wing air-		Tarcisia, Sister Maria, see Fenuta,	
plane, flight investigation.....	6725	Maria G.	
yaw damping effects on vertical		Target tracks:	
tailloads in turbulent air.....	5285	data, processing systems, human-	
Taiwan, see Formosa.		operated, problems in design-	
Take-off (aircraft):		maneuvers cause of automatic, in-	
acceleration-type indicator in large		terceptor tracking errors,	
jet airplane.....	9373	study of methods for reducing.....	16833
jet airplanes, aerodynamic char-		Targets:	
acteristics.....	16871	aerial towed, techniques and pro-	
resistance of seaplanes, effect of		cedures, Air Force manual.....	9624
waves, investigation.....	13421	maneuvers, beam rider guidance	
Talc:		system in presence of noise, ef-	
in 1958.....	2002	fects on minimum miss dis-	
minerals yearbook chapter.....	15039	tance.....	6756
production, etc., 1958.....	13334	radar, detectability with B-display,	
Talent fees, definition under fair la-		effects of ambient illumina-	
bor standards act.....	1229	tion, CRT bias and noise.....	6860
Talking books, records for the blind,		target drones, general procurement	
catalog, 1953-57.....	3828	information.....	6085
Tallow:		see also Target tracks.	
consumption abroad, foreign mar-		Targhee National Forest:	
kets promotion to increase (re-		land applications pending under	
marks).....	1643	small tracts act, permit pro-	
futures trading and open con-		cessing—.....	
tracts.....	2428	law.....	14020
industry, changes in market, prac-		reports.....	9865, 12502
tices, and costs.....	11635	Tariff:	
inedible, world market survey.....	3179	act of 1930, amend—	
Tallulah, La., ecological investiga-		laws.....	14095, 15653, 15690
tions of boll weevil.....	15334	reports.....	4578,
Tamarack, pulping processes.....	1684	14217-218, 14254-255, 14450,	
Taming of blue and beyond.....	15340	14523-524, 15825, 15893-894.	
Tangelos, Florida, seasonal changes		customs duties, code of Federal	
in fruit development, etc.....	15332	regulations, supp.....	7720
Tank company, in attack, organiza-		customs regulations, 1954, revised	
tion and conduct of tactical		pages.....	1577,
training, USSR study.....	16630	3403, 4753-54, 6078, 7653, 8914,	
		12573-574, 14581, 17365.	

# JANUARY-DECEMBER

	Entry		Entry
<b>Tariff—Continued</b>		<b>Tax exemption—Continued</b>	
customs regulations, exporting to		passenger carriers operating in	
United States.....	3401	D.C., from mileage tax, report.....	7407
customs valuation under revised		payment to local Governments in	
German tariff law.....	10151	lieu of taxes, etc., on Federal	
decisions under customs laws, 2975,	11523	property, hearings.....	7620
Court of Customs and Patent		payments to Indians for destruc-	
Appeals.....	347	tion of fishing rights at Celilo	
Customs Court.....	6079	Falls, Oreg.—	
duty-free entry of relief supplies,		law.....	12011
agreement with Ghana.....	8251	reports.....	8841, 12124
import duties, 1985.....	2161	pension trust procedures, etc.,	
import tariff system—		under internal revenue code.....	7872
Argentina.....	468	personal, for children placed for	
Austria.....	4889	adoption—	
British East Africa.....	9080	law.....	15740
Burma.....	464	reports.....	15784, 16135
Ceylon.....	4884	property of VFW in D.C.—	
Costa Rica.....	4891	law.....	15608
El Salvador.....	9075	reports.....	14202, 16140
Finland.....	16422	relief supplies and packages, agree-	
France.....	9079	ment with Ghana.....	8251
Greece.....	10156	United Spanish War Veterans, Inc.,	
Guatemala.....	9074	property in D.C. 12407, 13970,	14133
Italy.....	14701	United States obligations from	
Mexico.....	4881	State and local taxation, clar-	
Nicaragua.....	12711	ifying—	
Pakistan.....	1661	law.....	15711
Panama.....	10154	reports.....	14319, 14541, 15891, 15924
Turkey.....	10158	views.....	14319, 14541
United Kingdom.....	12718	<b>Tax experts, special technical assist-</b>	
tolls, St. Lawrence Seaway, agree-		ance agreement with Malaya.....	13622
ment with Canada.....	8244	<b>Tax guide for U.S. citizens abroad.....</b>	<b>17506</b>
see also Imports—also names or		<b>Tax refunds:</b>	
classes of articles imported or		Federal gas tax refund for nonhigh-	
exported.		way and transit users.....	1726
<b>Tariff Commission:</b>		income tax overpayment resulting	
appropriations, 1960—		from renegotiation, extend	
hearings.....	7445, 8881	period for filing claims—	
law.....	11975	law.....	15645
reports.....	8641, 8868, 12131	reports.....	4583, 14448, 15867
facts for industry series.....	2962, 11510	mineral treatment processes, amend	
investigate lead and zinc indus-		internal revenue code—	
tries reports.....	16055-56	hearings.....	7493
public notices.....	2964, 11512	additional copies, report.....	7372
releases.....	2963, 11511	suits against Internal Revenue	
report, 1958.....		Service, assessment of costs,	
departmental edition.....	4101	clarify law, report.....	8807
document edition.....	3282	<b>Tax revision compendium.....</b>	<b>17325, 17344</b>
report, 2d series.....	1211, 2160, 4102	<b>Taxation:</b>	
trade agreement escape clauses, in-		assessment for public improvements	
vestigations of applications		in D.C., notice to be served by	
filed with Commission.....	5439	registered mail—	
<b>Tariffs and trade, general agreement</b>		law.....	9778
on, see General agreement on		reports.....	5993, 9832
tariffs and trade.		cases decided by Supreme Court,	
<b>Tarpinian, Lionie, relief.....</b>	<b>14380</b>	Oct. term 1957.....	17345
<b>Tartaric acid, trade agreement escape</b>		double, convention with—	
<b>clause investigation, report.....</b>	<b>4103</b>	Belgium, text.....	12342, 17111
<b>Tashkent Astronomical Observatory,</b>		Pakistan, text.....	13615
USSR, description.....	13271	United Kingdom of Great Britain	
<b>Tatarnikov, Victor, relief.....</b>	<b>4680</b>	and Northern Ireland—	
<b>Tatochila, see Butterflies.</b>		extension.....	4087
<b>Ta-tung Basin, northern Shansi,</b>		protocol.....	1205
sketches of land forms.....	12837	protocol, report.....	12346
<b>Tautomerism:</b>		employer's tax guide.....	4952
exchange reactions in phosphorus		farm real estate, 1958.....	15234
chemistry.....	16986	<b>Federal tax policy for economic</b>	
phosphorus chemistry.....	5348	growth and stability, papers,	
<b>Tawil, Nissim S., and family, relief.....</b>	<b>4486</b>	additional copies report.....	14280
<b>Tax Court:</b>		gula contributiva del seguro social	
appropriations, 1960—		para patronos Puertorriqueños.....	6324
hearings.....	4632, 7603	Hunan Province, agricultural tax	
law.....	9771	provisions and procedures.....	4995
reports.....	5866, 8887, 8816	improvements financed through	
decisions (separates).....	2965, 11513	special assessments, urban re-	
reports (decisions)—		newal areas.....	6993
bound volumes.....	2162, 5442, 15242	payment to local Governments in	
consolidated pamphlets.....	2966, 11514	lieu of taxes, etc., on Federal	
<b>Tax exemption:</b>		property.....	
Association for Childhood Educa-		minority views.....	16113
tion International, property in		report.....	16113
D.C. 7589, 13965, 14132		priority and nondischargeability	
grants to philanthropies, hearings.....	1549	of taxes, amend bankruptcy	
nonprofit organizations, mutual de-		act, reports.....	12280, 15802
posit guarantee funds, report.....	15823		

# INDEX, 1959

	Entry
<b>Taxation—Continued</b>	
relation to TVA rates.....	10622
small business—	
guide, 1959.....	541
legislation, 1958 summary.....	15983
tax revision act of 1958, ques- tions and answers.....	328
social security, agricultural em- ployer's guide.....	533
State, interstate commerce, effect on small business—	
hearings.....	7647, 8910, 12571
report.....	12401
State tax collections, 1959.....	13869, 17283
tax administration and fiscal sound- ness (remarks).....	5449
taxable property values in United States.....	9705
Western Hemisphere trade corpo- rations.....	6221
<i>see also</i> Admissions tax—Income tax—Inheritance and transfer tax—Internal revenue—Occu- pational tax—Real estate— Social security—Stamp taxes—Tax exemption—Tax refunds— <i>also</i> names of ar- ticles, etc., subject to tax.	
<b>Taxation of Interstate Commerce Commission, <i>see</i> State Taxa- tion of Interstate Commerce Commission.</b>	
<b>Taxes, <i>see</i> Taxation.</b>	
<b>Taxicab Drivers, Maintenance and Garage Helpers Local Union no. 777, labor management re- lations, improper activities in- vestigation, hearings.....</b>	8892
<b>Taxiways (aeronautics):</b> problems associated with runway roughness, study.....	6762
<b>Taylor, Philip B., nomination, hear- ings.....</b>	7606
<b>Taylor Model Basin, <i>see</i> David W. Taylor Model Basin.</b>	
<b>TB, <i>see</i> Tuberculosis.</b>	
<b>TBM aerial tanker, <i>see</i> Airplanes.</b>	
<b>TC series.....</b>	17423
<b>Tea, foreign agriculture circulars.....</b>	2643, 11182
<b>Teachers:</b>	
aviation training instructor, exam- ination announcement.....	250
Bulgaria, assist Komsozol in fight- ing religion.....	14946
Defense Department's dependents schools overseas, salaries and personnel administration—	
hearing.....	7478
law.....	11978
reports.....	7423, 7542
District of Columbia—	
credit educational leave for re- irement purposes, report.....	16139
salaries, amend act, report.....	12260
education—	
5th year programs, bibliography.....	3417
role in distributive education.....	14596
elementary and secondary schools, fall 1958, statistics.....	3419
exchange opportunities, teaching and summer seminars, 1960- 61.....	12508
mathematics—	
books for, list.....	8941
secondary school, reference book list.....	8942
population characteristics, census publications on mental health, se- lected reading list.....	5678
remedial speech and hearing edu- cational needs for teaching handicapped children.....	5318
	3415

	Entry
<b>Teachers—Continued</b>	
salaries, Federal financial supports to States—	
hearings.....	7462, 8905
report.....	8703
views.....	8703
science and mathematics, summer institutes.....	2076
secondary school of mathematics and science, training oppor- tunities, 1960 academic year and in-service summer insti- tutes program.....	17792
vocational agriculture, inservice education, criteria for evaluat- ing statewide programs.....	14595
<i>see also</i> Faculty (schools).	
<b>Teaching:</b>	
career opportunities, requirements, etc.....	10080
opportunities, 1959.....	16253
opportunities, requirements, etc.....	10078
profession, 5th-year program of teacher preparation.....	3417
situation, etc., in schools in Peo- ple's Republic of China.....	4968
with radioisotopes, manual of ex- periments.....	8422, 13813
<i>see also</i> subjects taught.	
<b>Teamsters, Chauffeurs, Warehouse- men and Helpers of America, International Brotherhood of <i>see</i> International Brotherhood of Teamsters, Chauffeurs, Warehousemen, and Helpers of America.</b>	
<b>Teamwork, TVA and Tennessee Valley Trades and Labor Council.....</b>	2969, 11517
<b>Teays Valley, west-central Ohio, pre- glacial, geological and geophys- ical study.....</b>	3605
<b>Technical aids for small business.....</b>	1170
<b>Technical aids for small manufac- turers.....</b>	6933, 13585-586, 15189
<b>Technical amendments act of 1958, <i>see</i> Internal revenue.</b>	
<b>Technical and economic data for pro- duction of magnesium.....</b>	655
<b>Technical assistance, <i>see</i> Foreign aid.</b>	
<b>Technical bulletins:</b>	
Agriculture Department.....	115,
3081-83, 4195-97, 5559, 7068- 71, 8341, 13741, 15330-334.	
Apprenticeship and Training Bu- reau, T series.....	7125 8376
Army Department.....	164-167
civil defense technical bulletin, TR series.....	182-83, 11827
Coast and Geodetic Survey.....	8488, 17303
Food and Drug Administration.....	14681
safety & fire protection technical bulletin.....	13815
<b>Technical circular, Federal Housing Administration.....</b>	16322
<b>Technical cooperation:</b>	
industrial development and produc- tivity programs, description, etc., list by countries.....	12785
industrial development through participant training.....	12787
marketing management and distrib- utive trades importance.....	12783
national industrial technical cen- ters, list.....	16488
<i>see also</i> Foreign aid— <i>also</i> name of country with which agreement is made— <i>also</i> subjects.	
<b>Technical data on Soviet heavy ma- chinery.....</b>	1742



# JANUARY-DECEMBER

	Entry
Technical development reports:	
Civil Aeronautics Administration.....	245, 1619-20, 4802-10
Federal Aviation Agency.....	6122
Research and Development Bureau, Federal Aviation Agency.....	7698-7700, 9479-80
Technical documentary reports, Air Force Office of Scientific Research, quarterly index.....	2306
Technical education:	
secondary, Korean People's Republic.....	3600
specializations in Communist China.....	8946
Technical equipment reports.....	7838-39
Technical information bulletin on atomic weapon accident hazards, precautions and procedures.....	198
Technical introduction to space, challenge of space exploration.....	9387
Technical manuals:	
Army Department.....	168-170, 1872, 3148-51, 4802-4, 5628-29, 7134-35, 8388-90, 9652-56, 11708-714, 13788-790, 15392, 17245-246
Civil Aeronautics Administration.....	1613
Civil and Defense Mobilization Office.....	8470, 13872
see also subjects.....	
Technical meetings, list.....	2860
Technical memorandums:	
Army Transportation Research and Engineering Command.....	9532, 13649
Beach Erosion Board.....	8967-70, 10068, 17382-388
Signal Corps, Army.....	13579
Waterways Experiment Station.....	6108
Technical news bulletin, National Bureau of Standards.....	2850, 11392
Technical notes:	
Air Force Cambridge Research Center.....	117-118, 1325-27, 3084-85, 4200-1, 5662-63, 7072-76, 8343, 9022, 11658-661, 17212
Air Force Missile Development Center.....	15336
Air Force Office of Scientific Research.....	4202, 7077, 9023, 11665
Alaska Forest Research Center.....	3551
Forest Products Laboratory.....	1686, 6255, 9101-2
Lake States Forest Experiment Station.....	3566-73, 6260-61, 7827-31, 14725-733, 17461-466
National Advisory Committee for Aeronautics.....	1091-98, 3917, 5257, 6751, 8074, 9362, 14431
National Aeronautics and Space Administration.....	13439-451, 15071-85, 16869-929, 17734-758
National Bureau of Standards.....	1694
Picatinny Arsenal, Dover, N.J.....	6882, 8164, 13536, 17007
Rome Air Development Center.....	3118-19, 9639
Wright Air Development Center.....	155, 156, 3121-23, 4269-70, 5603-5, 8369-70, 9642-43, 11683-685, 15357-358, 17232-233
Technical papers:	
California Forest and Range Experiment Station.....	1675, 3554, 6239, 7806-7
Central States Forest Experiment Station.....	480, 3557, 7811, 9092-93, 14712, 16427
11th metallographic group meeting.....	11750

	Entry
Technical papers—Continued	
Pacific Southwest Forest and Range Experiment Station.....	12748, 16446
Weather Bureau.....	1232, 2176, 4124, 7002-3, 8272, 13002
Technical progress reviews (series).....	10773-775
Technical publications:	
NAVDOKS TP series.....	2180-83, 10640, 13669-672, 15248, 17896-898
Soil Conservation Service.....	17082-88
Technical record of design and construction:	
Cochuma Dam.....	17065
Monticello Dam.....	8206
Telecote Tunnel.....	17066
Tracy pumping plant, etc.....	13568
Technical reports:	
Air Force Cambridge Research Center.....	110-120, 1328-29, 5564, 11662, 17213
Air Force Missile Development Center.....	3086
Air Force Office of Scientific Research.....	7078
Air Force Personnel and Training Research Center.....	153, 154, 4265
Air Force Special Weapons Center.....	8344
Air Research and Development Command.....	13748
Arctic Construction and Frost Effects Laboratory.....	3427, 7677
catalog, CTR series.....	8173-75, 4341-42, 5663-66, 7168, 9675-77, 11762, 15444-446
Chemicals and Plastics Division.....	10573
Diamond Ordnance Fuze Laboratories.....	5364, 13532
National Aeronautics and Space Administration.....	17763-767
Naval Gun Factory.....	4000
Naval Research Office.....	15132
news letter.....	2341, 10869
Picatinny Arsenal, Dover, N.J.....	6883-84, 17008
Snow, Ice, and Permafrost Research Establishment.....	16269
Waterways Experiment Station.....	393, 6109, 7681, 8972-75, 12616-622, 14604-606, 16272-275, 17389
Wright Air Development Center.....	1363-65, 3124-29, 4271-78, 5606-9, 7121-24, 8371-73, 9644-47, 11686, 693, 13771-779, 15359-368, 17234-237
Technical research activities, of co-operative associations, study.....	6074
Technical research notes:	
Personnel Research Branch, Adjutant General's Office.....	1-3, 1237-43, 3002, 4127-29, 9565, 11555
listings and abstracts.....	1238
Technical research reports:	
Personnel Research Branch, Adjutant General's Office.....	4, 1244-45, 5470, 9566
listings and abstracts.....	1238
Technical review, Diamond Ordnance Fuze Laboratories.....	2872
Technical services:	
Army National Guard, payment and accounting procedures, National Guard regs.....	3956
equipment and supplies assigned to Army National Guard, instructions for maintenance, NGB pamphlet.....	9401
small manufacturers laboratory, setting up.....	13585
United States Army in World War II.....	8025, 13207

# INDEX, 1959

	Entry		Entry
Technical Services Office:		Teeth:	
English abstracts of Russian technical journals available lists.....	9684, 13441	fluoridation of water to prevent tooth decay.....	6910
releases.....	2344, 10875	pulpless, endodontics course in root canal therapy, outline of basic principles, etc.....	8138
Technical standard orders.....	10098-99, 16312, 17401	Teflon, see Polytetrafluoroethylene.	
Technical translations:		Teiidae, see Lizards.	
National Aeronautics and Space Administration.....	15086-087, 17759-761	Telecommunication:	
Office of Technical Services.....	2342, 10870	agreement with Liberia.....	17122
Technicians:		code of Federal regulations.....	3471, 7724
Air Force opportunities.....	4260	German Democratic Republic, system, regulations.....	17532
Air Research and Development Command, career opportunities.....	147-148	North Korea, selected articles.....	10219, 12828
Army National Guard payment, etc., N.G. regs.....	3956	Poland, service in 1958, results of performance and outline of future trends of action.....	838
labor market conditions, bi-monthly.....	2429, 11030	USSR research and development.....	1856
see also Dental technicians—Electromechanical technicians—Electronic technicians—Fire control technicians—Helicopter technicians—Medical technicians.		see also special method of communication.	
Technological unemployment, automation and technological change hearings, additional copies, report.....	14281	Telecote Tunnel, design and construction.....	17066
Technologists:		Telegraph:	
cotton, examination announcement.....	3210	allowance for House of Representatives members—	
examination announcement.....	3209	law.....	15705
see also Medical technologists.		report.....	16091
Technology:		carriers—	
agricultural, advance impact (address).....	17188	data from monthly reports.....	2521, 11057
can America afford mediocrity (address).....	10393	domestic and international, reporting annually, statistics, 1958.....	16313
changing, development of needed skills through apprenticeship (address).....	10392	international and marine, merger, hearings.....	17357
chemical, Soviet abstracts.....	662, 723, 736, 756-761, 766-768, 784, 787, 789, 791-792, 1818, 1829-80, 1839, 1861, 3740, 3743, 3747, 3755-56, 3762, 3765, 3768, 3771-72, 3778-79, 3786, 5045, 5060, 5075, 6540, 6546, 10289-290, 13034, 13062, 13164, 13186-187, 13214.	industry, international communications, outlook for 1959 and review of 1958.....	3178
China, revolution.....	3664	Poland, communications problems, record communications industry, domestic, outlook for 1959 and review of 1958.....	837
future international meetings, world list.....	11319	terminals AN/FCC-3A and AN/FCC-7A, operation and maintenance, technical manual.....	5671
legislative, etc., actions, summarization.....	6002	terminals, AN/TCC4 and AN/TCC20 operators manual.....	11712
news features.....	2420	Telemechanics:	
science and technology.....	10951	automatics and telemechanics (USSR periodical), abstracts.....	8426, 10784
selected Soviet reports.....	1752	devices, principal problems of theory in USSR.....	794
Soviet Union and China, report.....	554	research, USSR.....	14945
see also Automation—also subjects.		Volga hydroelectric power station, USSR, operation and development.....	9261
Tectonics:		Telemeeters:	
oil-gas bearing regions of northern part of territory of North Caspian depression, USSR studies.....	7917	electrical depth direct reading, use in determining depth of mid-water trawls, accuracy.....	1637
rock structure of bottom of Japanese Sea, data of expedition on Vityaz, USSR studies.....	3804	radio telemeeter systems, use in solving survey problems.....	8488
Tectonophysics—		telemeetry transmitting and receiving equipment system standards for missiles and aircraft, military standard.....	1585
new prospective branch of geology, USSR studies.....	9201	Telemeetry standards for missiles and aircraft.....	1585
results and prospects of tectonophysical investigations, USSR studies.....	3802	Teleology and determinism, USSR study.....	16616
Tedder, Mrs. Paul M., award in recognition of scientific contributions made by husband.....	4526, 7292, 7504	Telephone:	
Teenagers, see Youth.		allowance for House of Representatives members—	
		law.....	15705
		report.....	16091
		carriers, statistics, 1958.....	14610
		commercial communications services, Air Force manual.....	1338, 3103, 4220.
		communications industry, domestic, outlook for 1959 and review of 1958.....	5669

# JANUARY-DECEMBER

	Entry
Telephone—Continued	
data from carriers' monthly reports	2522, 11056
directories—	
House of Representatives	4425
Senate, 1959	4665
engineering and construction manual	17069
facts for industry	2372
industry, international communications, outlook for 1959 and review of 1958	3178
lack of spare parts, laying of underground cable network, bribery for telephone installation in Rumanian Telephone Company	6410
operations manual, plant code and account handbook	17070
Poland—	
automatic exchanges, profitability	796
central offices, etc., economic effectiveness of investments and profitability, studies	6420
tasks of local services	839
REA-financed, design and construction, station installation handbook	17069
rural—	
central office equipment—	
contract, including installation	5397
specifications, detailed requirements	5398
farm telephone costs continue upward	7017
farms, three-fifths of nation have service	9581
Rural Electrification Administration borrowers system, list of materials acceptable	6925, 15179
supplement	10574
Rural Electrification Administration loan program (remarks)	6926
set, TA-1/1T, operation and organizational maintenance, technical manual	17245
statistical bulletin	2913, 11458
supplements	2915, 11460
system, construction contract, labor and material	4047
terminal AN/TCC-7, field and depot maintenance, technical manual	3148
XY dial central office equipment—	
maintenance technical manual	168
power, ringing, and supervisory equipment, technical manual	4304
Teletype, news ticker service, Federal supply schedule	9014
Teletype operators, semiautomatic equipment, examination announcement	5734
Teletypists, examination announcement	5733
Television:	
broadcast actions, reports	2526, 11061
broadcasting facilities, establish and improve, amend communications act, hearings	9914
broadcasting occupations, industrial trends	9557
broadcasting stations of world indexed by—	
call letter and station name or slogan	12701
country and city	12699
country, city, and frequency	12702
frequency	12700
broadcasts, market news, survey	4137
community antenna systems, establish F.C.C. jurisdiction report	16144

	Entry
Television—Continued	
educational—	
proceedings of conference	8938
utilization, expedite—	
hearings	4745, 9914
report	4719
inquiry, hearings	6067
national defense education act of 1958—	
administration, hearings	5924, 9908
guide	3420
new educational media program	6099
network rules, FCC to establish, hearings	6067
newscasts, etc., equal-time amendment—	
hearings	14343, 14569
law	14100
reports	12255, 12463, 14242, 14299
views	12255, 12463
occupations, American women, membership analysis	9555
rating services, impact on public, hearings	6067
rebroadcasting, amend communications act, report	16133
RTU reporting outfit, USSR	9262
service to small communities, problems:	
hearings	6067
staff report	6068
sets, facts for industry	8455
sets in households in U.S.	11803
standard, closed circuit system for ARTC sector coordination, evaluation	4806
talent fees, defining term as applied to performers and announcers	1229
UHF-VHF allocation problems—	
ad hoc advisory committee report	6066
hearings	6067
views	6066
Western Europe, aspects, with implications for American industry	5929
Telluric currents, see Geophysics.	
Tellurium:	
extraction from autimonious slag	1794
Mines Bureau research program	13326
neutron cross section measurements	17250
production, etc., 1958	13326
Tellurometers, distance-measuring system, etc., manual	7248
Telomerization, review of literature	3955
Temperature:	
arbitrary wall, and heat flux	2049
constant wall, heat transfer from flat plate, problem	1086
dependence of dark conductivity of organic dyes and temperatures, German studies	6406
dissipation of effect of drilling well in Arctic Alaska	14743, 16464
distribution behind cylinders in flow	15087
drops through liquid-cooled turbine blades with various cooling-passage geometries	3897
elevated—	
bonding of various metals and alloys by isostatic pressing	7151
boron-modified S-816 alloys performance in turbojet engine at 1650° F	6774
corrosive cracking of austenitic steels	1927
effect on compressive strength of stainless steel sandwiches	10503
effect on performance of tubular turbojet combustor	13400

# INDEX, 1959

	Entry		Entry
Temperature—Continued		Tennessee River and Valley:	
elevated—continued		commercial forest areas, 125-	
effects on magnetic properties of		county summary	6972
core materials	10550	dams and reservoirs, TVA multi-	
inorganic polymer structural ad-		purpose development	17881
hesives, resistance research	1365	dams and steam plants, visitors	
materials, conference, USSR		are welcome	15232
studies	5080	floods of Jan.-Feb. 1957	1212
solid dry film lubricants, test-		forest economy, 6-county study and	
ing	8371	analysis	10615
tensile properties of wrought sin-		forest fires and area burned,	
tered tungsten	16904	1934-58	10616
equilibrium, evaluation for front		important features and recent	
half of swept circular cylinder		trends in region	2165
at Mach number 6.9	13415	industrial development in TVA	
fluctuation generated by warm		area in 1958	9529
grid, effect of contraction	8088	navigation charts, index, national	
fluctuations behind heated grid,		atlas sheet	13646
errata	9362	precipitation in basin	2968
kinetic, contribution to half-widths		profile of Tennessee Valley States,	
of solar absorption lines	8222	characteristics and general	
low		trends	2164
effect on starting of diesel en-		river traffic and industrial growth,	
gines	14597	TVA	10624
embrittlement mechanics deduced		round pulpwood production trends,	
from zinc single crystal frac-		1947-58	15228
ture studies	2124	surface water supply of basin,	
mechanical properties of Fe-C		1957	6299
alloys	13571-572	TVA operations in Muscle Shoals	
tensile properties of light al-		area, description	15231
loys	17005	Tennessee Valley Authority:	
trapped radicals, free radical		act of 1933, amend—	
stabilization, symposium	13459	law	14012
measurement, APPR-1 research		report	12492
and development program	172	annual reports	2163, 6973
radiative properties of high temp-		appropriations, 1960—	
erature air	8344	hearings	8721, 10028
satellite, above earth's atmosphere,		law (H.R. 9105)	15629
calculation	7106	veto (H.R. 7509)	15773
soil		veto (H.R. 9105)	15774
measurements, equipment and		area, industrial development, 1958	10620
methods	8289	audit report, 1958	5805
scheme of calculating according		bibliography, supp., 1957-58	17139
to given weather forecast,		bonds to finance additions, etc.	
USSR study	5124	hearings	5935, 10055
step wall-temperature distribution,		laws	14000, 14012
heat transfer from flat plate	2047	minority views	5899
transit, of California lettuce	1312	reports	5809, 7403,
turbine rotor blades, air-cooled in			10000, 10017, 12492
turbogenerator at inlet tem-		views	10017
peratures up to 2580° R and		dams and steam plants, visitors are	
altitudes of 50,000 feet, etc.	6715	welcome	15232
turbogenerator turbine-section in		distributors of TVA power, report,	
altitude test stand	6713	1958	1214
venting of hot gases through in-		electric rates, relation to taxes	10622
versions	4262	electricity sales statistics—	
see also Atmospheric tempera-		annual report, 1958	6974
ture—Heat transfer.		monthly report	2967, 11515
Ten for survival, survive nuclear at-		facts about TVA operations, 1959	10614
tack	17295	facts about TVA operations, 1960	17879
Ten-pounders, Elops saurus, early		fertilizer education program, sta-	
development and metamor-		tistical summary by States and	
phosis	12685	geographic areas	4106
Ten-year timber-cutting cycle pro-		fertilizer research and development	
vides continuing supply of		program	4107
forage	1676	flood control operations	17881
Tenakee, Alaska, aircraft accident	3193	flood control program	13645
Tenly, Alice V., relief	7538, 8554, 11917	forest products industry notes	15227-228
Tennessee:		forestry activities, 1958-59	17185
census of governments, 1957, State		forestry bulletins	1213, 5443-44,
bulletin	13843	8258, 9528, 10617-618, 13643-644, 17136-138, 17880.	
Chattanooga shale as uranium		Forestry Relations Division, Fish	
source	17258	and Game Branch report, 1959	15225
climatological data	2993, 11546	influence on electric rates	10625
farm supply co-ops, inventory man-		operations in Muscle Shoals area,	
agement	7687	description	15231
mineral industry, minerals year-		patent practices, preliminary re-	
book chapter	1997	port	8395
precipitation data, hourly	2996, 11549	power, 1958-59	10623
round pulpwood production in 125		program activities in TVA States	2164
counties, 1958	15227	reports and publications available,	
TVA program activities	2164	list	15229
Yellow Creek Watershed, forest in-		river traffic and industrial growth	10624
ventory statistics	17136		



# JANUARY-DECEMBER

	Entry		Entry
Tennessee Valley Authority—Con.		Testimony, <i>see</i> Evidence.	
teamwork (periodical)-----	2969, 11517	Testing, materials, military construction, Air Force manual-----	134
tributary watershed activities, list of reports and publications-----	15230	<i>see also</i> Ability—Electric testing—Impact—also names of substances or objects tested.	
TVA 1958, 25th anniversary year-----	8259	Testing apparatus:	
TVA and its power operations, brief financial report, 1958-----	15226	cotton fiber maturity and fineness, Causticairre method of measuring-----	11572
Tensile properties of light alloys at low temperatures-----	17005	radar OA-228/TPS-25, operation and organizational maintenance, technical manual-----	9655
Tensile strength, <i>see</i> Strains and stresses.		tension tester, high rate-----	6883
Tension, <i>see</i> Strains and stresses.		Tests, <i>see</i> types, or names of tests.	
Tenure of land, <i>see</i> Land tenure.		Tetanus, origin, symptoms, treatment, etc., information-----	9469
Term contracts-----	17423	Tetra-ethyl lead, increasing content in motor fuel, public health aspects-----	17830
Terminals (cable):		Texarkana, Lake, general information-----	6104
telephone, AN/TCC-7, field and depot maintenance, technical manual-----	3148	Texas:	
Terminals (transportation):		agricultural conservation handbook-----	1250
air traffic control, effects of enroute control-----	17235	Blackland area, soils, factors influencing swelling and shrinkage-----	13708
Broward County International Airport, Fort Lauderdale, Fla., dedication (address)-----	7226	Board of Water Engineers, representative on study commission-----	14077
Termites:		law reports-----	7581, 14260
soil treatment aid in control-----	13727	census of governments, 1957, State bulletin-----	13844
subterranean, protection of wood used in new construction, recommendations-----	6268	citrus industry, marketing adjustments to crop freezes of 1949 and 1951-----	8322
Terrain:		climatological data-----	2993, 11546
representation—		conodonts from Chappel limestone, geology-----	4930
cartographic, topographic survey as prerequisite, German studies-----	3704	cotton varieties planted in early producing areas, 1959-----	9577
colored, German studies-----	3700	east—	
current methods and procedures, German studies-----	3703	electric-furnace smelting of iron ores, progress report-----	2011
geographic—morphological requirements, German studies-----	3705	managing small forest-----	3585
scanning of halftone drawings, German studies-----	3706	sampling iron ores-----	13369
special cartographic field, 1958 Niederollendorf seminar report-----	3702	electric rate book-----	12653
Terrebonne, Bayou:		landings, fishery products-----	2631, 11169
declare nonnavigable stream—		mineral industry, minerals year-book chapter-----	3852
law reports-----	9992, 15808	precipitation data, hourly-----	2996, 11549
Terrestrial magnetism:		water-program needs (address)-----	17484
anomalies, determination of depth of body-----	1803	west and central, Pennsylvanian and lower Permian rocks (series)-----	14756, 16469
earth, great magnet-----	5025	west, forest insect conditions, 1958-----	3582
nature of gravitational and magnetic anomalies of Russian platform, USSR study-----	3696	women, legal status-----	1233
<i>see also</i> Magnetograms—Magnetographs.		Texas City, Tex.:	
Territorial papers of United States, compilation-----	1099, 16936	explosions, settlement of claims, amend act—	
Territories:		law reports-----	15745, 7382, 16148
dental directors, conference with P.H.S. and Children's Bureau, 1959 proceedings-----	17048	Textbooks:	
municipal water facilities, 1958-----	8195	for libraries in Air Force medical facilities, list, AF pamphlet-----	7105
rice distribution patterns-----	7009	foundations of air power, use in AFOTC educational program-----	4261
United States trade-----	2362	Textile fibers, <i>see</i> Fibers.	
Territories Office, releases-----	11518	Textile machinery, industry, midyear review and outlook for 1959-----	9698
Terrorio, Pacific A., relief-----	12368	Textile mills:	
Tertiary period:		products—	
early, comparison of Apheliscus and Phenacodaptes as pantolestid insectivores-----	13590	labor turnover rates per 100 employees-----	8001
mollusks, gastropods, vermetidae to thalididae, description-----	14754	manufacturing plants, location by county and employment size-----	7218
preglacial Teays Valley in west-central Ohio, geological and geophysical study-----	3605	Textiles:	
stratigraphy of rocks, west-central Florida-----	17487	apparel, and related manufactures, imports in relation to U.S. production and exports, 1954-58-----	17446
Test fee schedules of National Bureau of Standards, 1959-----	8099	broad woven goods, facts for industry-----	8454
Test sets, <i>see</i> Testing apparatus.			
Testes, chemical composition in atrophy caused by ionizing radiation, changes, USSR study-----	12969		

# INDEX, 1959

	Entry		Entry
<b>Textiles—Continued</b>		<b>Therapeutics—Continued</b>	
cotton broad woven goods, facts for industry.....	9715	effect of strychnine in acute radiation sickness in rats and mice, USSR study.....	10381
covering wet rollers of offset printing machines, USSR study.....	6616	importance of new drugs reserpine and cortisone acetate, USSR study.....	12932
importance of fabric characteristics in selection of women's clothing.....	11632	preparations synthesized in Academy of Sciences Latvian SSR, USSR study.....	6579
industry—		radiation injuries, general principles in treatment of combined affections, USSR study.....	10367
and materials in Communist China, technical changes.....	16523	<i>see also</i> Electrotherapy.	
Communist China.....	764, 5096	<b>Therapists, Moscow Society of, <i>see</i> Moscow Society of Therapists.</b>	
selected translations.....	16586	<b>There's a star in your future (VA nursing career).....</b>	17886
cycles and trends.....	3177	<b>Thermal analysis, <i>see</i> Heat.</b>	
industry of United States—		<b>Thermal insulation, <i>see</i> Insulation.</b>	
investigation, extension, report, study of problems—	4711	Thermal stability of unsymmetrical dimethylhydrazine.....	2050
hearings.....	3391, 4746	Thermal stresses, <i>see</i> Strains and stresses.	
report.....	4705	Thermionic emission, properties of lanthanum hexaboride adsorbed nitrogen effect.....	6760
knit cloth for sale, facts for industry.....	9719	Thermochemistry, titanium.....	13370
man-made fiber broad woven fabrics industry, outlook for 1959 and review of 1958.....	1442	<b>Thermocolors:</b>	
man-made fiber broad woven goods, facts for industry.....	2372, 9720, 10903	for intaglio printing, USSR study.....	6617
narrow fabrics, manufacture, earnings, summary release.....	9206	improving fixation on impressions, USSR study.....	6615
products and processes, Government-owned inventions available for license.....	11871	<b>Thermodynamics:</b>	
products, prices and price indexes, 1957.....	891	molecular weight determinations in solutions, thermometric method.....	4364
stain removal from fabrics, home methods.....	8315	properties of—	
synthetic, manufacture, earnings, summary release.....	3817	fluorophlogopite mica.....	6661
tire cord and tire cord fabrics, facts for industry, 1955-58.....	8456	nonionized nitrogen-oxygen mixtures.....	13440
tufted products, facts for industry.....	2373, 10904	products of hydrogen combustion with air for temperatures of 600° to 4400° R.....	10474
<i>see also</i> names of textiles.		solid body.....	5303
<b>Thai Binh Province, work exchange and cooperative movements.....</b>	6362	rare-earth compounds.....	8051
<b>Thailand:</b>		<i>see also</i> Heat.	
citizens, instruction at Military Academy—		<b>Thermoelectric generators, efficiency, analysis.....</b>	11683
law.....	14037	<b>Thermoelectricity:</b>	
reports.....	12239, 12447	abstracts, bibliography.....	16095-996
investment factors summary.....	14693	feasibility for nuclear fuel elements progress report.....	4334
Khorat Plateau, geology and ground water reconnaissance.....	521	limitation effect in case of semiconductors (lecture).....	5027
labor in.....	16644	noble metals, thermoelectric properties.....	13793
loan of vessel, agreement.....	13618	thermoelectric nuclear fuel element, progress reports.....	11752, 17269
mutual security in action, fact sheet.....	1193	Thermoluminescent dosimeter.....	13520
surplus agricultural commodities, agreement.....	17103	<b>Thermomagnetic generators, efficiency.....</b>	15129
<b>Theocilia, <i>see</i> Butterflies.</b>		<b>Thermometers:</b>	
<b>Theodore N. Gill (fishing vessel):</b>		acoustics, for measuring air temperature, USSR study.....	16624, 17631
south Atlantic Coast cruise.....	7755	liquid-in-glass, calibration.....	2058
<b>Theodore Roosevelt Centennial Commission, final report.....</b>	14364	<b>Thermometry, method for thermodynamic studies and molecular weight determinations in solutions.....</b>	4364
<b>Theodore Roosevelt Dam, Lake, and Power Plant:</b>		<b>Thermonuclear Conference, Controlled, <i>see</i> Controlled Thermonuclear Conference.</b>	
law.....	14097	<b>Thermonuclear reactions, <i>see</i> Nuclear reactions.</b>	
reports.....	12506, 14304	<b>Thermopneumatics in aerosol flow, USSR.....</b>	5111
<b>Theodore Roosevelt National Memorial Park, general information.....</b>	15116	<b>Thermoplastics, <i>see</i> Plastics.</b>	
<b>Theodorou, Vasiliki, P., relief.....</b>	12056, 14407, 15506	<b>Thermoregulatory shifts in human organism in cold climate and morbidity in connection with chilling factor.....</b>	620
<b>Theoretical studies (Chinese periodical):</b>		<b>Theses, <i>see</i> Dissertations (academic).</b>	
articles.....	12847	<b>Thiamine, <i>see</i> Vitamins.</b>	
Theory of double-gyroscopic vertical Theory of multimolecular adsorption, USSR.....	6796, 12925		
Theory of stability of motion.....	1375		
<b>Therapeutics:</b>			
action of somatotrophic hormones in radiation affection, USSR studies.....	3737		

# JANUARY-DECEMBER

	Entry		Entry
Thiobarbituric acid, measurement of rancidity in fish by 2-thiobarbituric acid method.....	4853	Thule, Greenland:	
Thiols, cytochemistry of groups in sensory and motor neurons, USSR study.....	17654	cryoconite of area, research report.....	14603
Thiouraea, dormancy of wedgeleaf ceanothus seed broken.....	3552	formation of sorted patterns in gravel overlying melted ice surface, processes involved.....	17381
This is my America (address).....	5392	ice from Tuto tunnel and ramp, physical properties.....	16267
This side up, handle with care.....	7266	Thunderstorms, analysis in northern Rocky Mountains.....	14722
Thompson, Wintford J., relief.....	4509	Thurston County, Wash., soil survey.....	1176
Thorium:		Thyroid gland, radiolodine uptake measurement, standard system for universal intercalibration.....	11782
bibliography, Geological Survey reports.....	17490	Thyrototoxicosis, X-rays, low doses, effect on penetrability of capillary walls, USSR study.....	6613
contributions to geology of uranium (series).....	17490	TIAS series.....	1109-1207,
metallography techniques.....	1387	2152-58, 4078-96, 5421-36, 6954-68, 8235-51, 9510-25, 10596-608, 13613-632, 15204-221, 17098-17128, 17859-875.	
mineralogy, systematic study.....	3599	Tibet:	
minerals yearbook chapter.....	15040	chronology of events, 1949-59.....	14799
Mines Bureau research outline.....	13325	events leading to revolt.....	17542
production, etc., 1958.....	2001	party activities, 1958-59, translations from Communist China's translations.....	16537
raw materials availability, current and long term, for atomic energy development.....	15430	physical geographic characteristics.....	7901
single crystals, application of elastic constants theory.....	7145	state and administrative organs.....	7893
Thorium oxide, thorium-uranium pellet preparation.....	17259	Tibetan Plateau, physical regions, description.....	9179
Thorium sulfides, disulfide, low temperature heat capacities and entropies.....	10459	Ticks, see Fowl ticks.....	
Thornton Jct., Ill., railroad accident.....	10207	Tidal Hydraulics Committee, report.....	8966
Threads, see Screw threads.....		Tidal waves, propagation into channels of gradually varying cross-section, effect of frictional resistance over bed.....	17382
Three Affiliated Tribes of Fort Berthold Reservation, see Fort Berthold Reservation.....		see also Tsunami (tidal wave).	
Three-dimensional lunar mission studies.....	13437	Tides:	
Threshold lighting, see Lights and lighting.....		calendar for Hampton Roads, Va.....	2670
Thrift, see Savings and thrift.....		harmonic analysis and prediction, manual.....	3244
Throat, streptococcal sore, death rates by age, color, and sex, 1949-51.....	3967	tables—	
Throat-area determination for cascade of double-circular-arc blades.....	1000	central and western Pacific Ocean and Indian Ocean.....	11861
Thrust:		Europe, West Coast of Africa and Mediterranean.....	7250
augmentation, hydrogen peroxide injection turbojet combustor, performance.....	2039	North and South America.....	4398, 7249
characteristics of convergent-divergent exhaust nozzles at subsonic and supersonic flight speeds.....	6700	Tientsin, China, rapid economic progress.....	6382
characteristics of convergent-divergent nozzle with various exhaust jet temperatures.....	6701	Tift County, Ga., soil survey.....	6939
characteristics of cylindrical cooling-air ejectors with temperature ratio of 1.0.....	2026	Tigre Bayou:	
characteristics of nozzles having radial flow in divergent part.....	3918	improvement, engineers report—	
characteristics of plug-type exhaust nozzle.....	5231	departmental edition.....	374
controllable reverser, effect on flight characteristics of single-engine jet airplane.....	9375	document edition.....	324
parameters on downward-directed jet beneath flat surface, ground proximity effects.....	1096	Timber:	
positive and negative, stall-butter characteristics of supersonic-type propeller, wind-tunnel investigation.....	9366	cull types and causes in Virginia and the Carolinas.....	496
turbojet-engine augmentation at altitude by combined ammonia injection into compressor inlet and afterburning.....	6697	grading logs and trees for quality.....	7819
turbojet, measurement methods applicable to flight installations.....	2036	national forest sales in 3 western regions, review.....	12548
Thrust reversers, target-type, effects on low-speed aerodynamic characteristics of single-engine jet airplane.....	16899	products—	
		miscellaneous, production, Lake States, 1958.....	17466
		output in California, 1956.....	6237
		publications list.....	10172
		publications, price list.....	6906
		quality, log and tree grading systems as means of measuring, research program.....	3574
		resources—	
		Delaware.....	7840
		Michigan commercial forests, net volume by species group and county.....	8568
		Montana, use and development, survey.....	3244
		New Jersey.....	501
		North Carolina.....	6256
		Pennsylvania.....	4916

# INDEX, 1959

	Entry		Entry
<b>Timber—Continued</b>		<b>Tires—Continued</b>	
resources—continued		automotive, dual distribution in	
review, commentary guide for		industry, hearings.....	14579
color slides.....	481	bicycle, sold to manufacturers, ex-	
Virginia, 1957 survey.....	14736	empt from excise tax, report.....	15913
sales, Bureau of Land Management,	6637	cord and fabrics, facts for industry,	2372,
sales work and administration, tips		8456, 10903	
for improving.....	502	Federal item identification guides	
ten-year cutting cycle provides con-		for supply cataloging.....	8920
tinuing supply of forage.....	1676	Federal supply schedule.....	7732, 9016
Wisconsin—		laminated, tax, report.....	15859
defect variations, etc.....	17461	pneumatic, except aircraft, Federal	
sawtimber log grades.....	14729	supply schedule.....	3483
volume in counties.....	17462	recapping industry, capital require-	
water, and Stamp Creek logging		ments, techniques, and opera-	
operations.....	3587	tions.....	7877
water-timber management demon-		solid and cushion, Federal supply	
stration, Waynesville, N.C.....	10619	schedule.....	3483
see also Hardwoods—Mine timber—		Tissue cultures, cultivation, USSR	
also names of timber trees.		study.....	13250
<b>Timberlands:</b>		<b>Tissues:</b>	
exchanges for reservoir lands, re-		ammon, direct application in treat-	
port.....	7380	ment of radiation ulcer, Chi-	
Klamath Reservation, review of ap-		nese study.....	9198
praisal, hearing.....	7624	animal, changes in antigenic proper-	
Southwest Arkansas' small woodlot		ties in ontogenesis, USSR	
owners.....	16450	study.....	12948
Time, standard time zones in United		bone, effect of neurotropic sub-	
States, map, national atlas		stances on regeneration in	
sheet.....	12797	acute radiation sickness, USSR	
Time clocks, multiple-channel elapsed		study.....	10382
time-recorders of voltage am-		bruised animal tissue, biochemical	
plitudes.....	5343	problems in determining age	
Time recorders, see Time clocks.		of bruises.....	6116
Time-vector determined lateral deri-		changes in autolysis in radiation	
vatives of swept-wing fighter-		sickness, USSR study.....	13260
type airplane with 3 different		evolution and creative synthesis,	
vertical tails at Mach numbers		A. A. Zavarzin and N. G.	
between 0.70 and 1.48.....	15055	Khlopin's theories, USSR	
<b>Tin:</b>		study.....	16602
consumed in manufacture of tin-		Incompatibility, transplantation,	
plate, 1958.....	6655	etc.....	
consumption in United States,		all-Union conference.....	7910
1958.....	9345	reaction problems, conference of	
genesis of deposits of Trans-		Czechoslovakian Academy of	
baykal.....	7927	Sciences.....	7898
lode mining at Lost River, Seward		USSR Academy of Medical	
Peninsula.....	1985	Sciences endocrinological stud-	
minerals yearbook chapter.....	15041	ies on problems.....	815
monthly report.....	2835, 11377	irradiated animals, change in phys-	
new method for treatment of poor		ico-chemical properties of de-	
complex ores.....	1786	soxyribonucleic acid.....	5104
placer and lode investigations, Ear		lymphatic and hematopoietic, lym-	
Mountain area, Alaska.....	16720	phosarcoma and other neo-	
placer sampling methods and re-		plasmas, death rates, United	
sults, Cape Mountain district,		States, 1949-51.....	6821
Seward Peninsula, Alaska.....	6649	polyglucine content following trans-	
production, etc., preliminary fig-		fusion, detection by histochem-	
ures, 1958.....	6654	ical method.....	7921
recovered by detinning plants,		<b>Titaniferous iron ores, see Ilmenite</b>	
1958.....	8035	<b>Titanium:</b>	
secondary, production, etc., 1958.....	13336	alloys—	
<b>Tin chloride, volatilization from Bo-</b>		chemical and galvanic corrosion	
<b>livan slimes.....</b>	<b>6672</b>	properties.....	942
<b>Tin plate:</b>		copper-titanium, preparation and	
manufacture, tin consumed in 1958.....	6655	properties.....	6880
tin-nickel plate codeposition from		brazed honeycomb core panels, fab-	
organic and mixed aqueous		rication techniques.....	4276
organic solvents.....	10457	electrorefining—	
<b>Tioga's ghosts.....</b>	<b>9088</b>	cathode, studies and deep bath	
<b>Tiongeo, Clarita, see Martinez, Cla-</b>		deposition.....	10456
<b>rita.</b>		using internally heated cell.....	13373
<b>Tippecanoe County, Ind., soil survey.....</b>	<b>17081</b>	extraction by refining titano-mag-	
<b>Tips on timber sales.....</b>	<b>502</b>	netite ores of Kachkanarskiy	
<b>Tiptop, Ky., geology and coal re-</b>		deposit.....	7929
<b>sources.....</b>	<b>507</b>	identification marking, Federal	
<b>Tires:</b>		standard.....	14649
aircraft—		industry—	
low-speed yawed-rolling char-		preliminary report, 1958.....	2007
acteristics.....	3934	quarterly reports.....	2836, 11378
pneumatic, Federal supply sched-		ingot and mill products, facts for	
ule.....	3482	industry.....	2371, 10902
tire-to-surface friction under wet		metallurgical thermochemistry.....	13370
conditions.....	6764	minerals in heavy sand deposits,	
		Assateague Island, Md.....	16781



# JANUARY-DECEMBER

	Entry		Entry
Titanium—Continued		Toilets, metal partitions, facts for industry	2372, 10903
minerals yearbook chapter	15042	Toledo, Ohio, electric facilities of area, map	16336
Mines Bureau research program—production—	13331	Tolls:	
automation of technical processes	650	St. Lawrence Seaway, agreement with Canada	8244
electrolysis of molten media using soluble anodes, problems, USSR study	17639	San Francisco-Oakland Bay Bridge, use for rail-transit crossing, report	15899
production, etc., 1958	13331	Tom River, Kolyvan zone, engineering-geological characteristic of cover deposits	10264
sponge, hardness testing, equipment and procedure	3876	Tomatoeas:	
Titanium tetrachloride:		California mature-green, shipped by rail, transit temperatures	18731
production, chlorinating titaniferous slags	2013	commercial production	11625
trap for removing ferric chloride	943	greenhouse, commercial production	1301
Titanomagnetites, refining ores of Kachkanarskiy deposit for extraction of titanium concentrate	7929	storage life on Navy supply ship, extending	11631
Tito, Josip B., myth of "Titoism" in Yugoslavia, consultation by Un-American Activities Committee with Alex N. Dragulich	3222	Tomorrow's agriculture, research perspective	8303
Titration, see Volumetric analysis.		Tonometer, high-frequency, for measuring and recording intraocular pressure, USSR study	16595
Titration, automatic recording, description	11724	Tonto National Forest, general information	1701
TNCC, see Tripartite Nuclear Cross Sections Committee.		Tonto National Monument, general information	17786
Tobacco:		Tools, machine tools and tools (USSR periodical), abstracts	10826
burley, light air cured, market review, 1958	8285	see also Hand tools—Machine tools.	
crop summary	10717	Tooth, see Teeth.	
fire-cured and dark air-cured—market news summary, 1958-59 season	7030	Top ten government publications of year	13557
market review, 1958 crop	7019	Topaz, bibliography	10188
flue-cured—		Topographic maps, see Maps and charts.	
market news summary, weekly	2270, 10722	Topographic surveying, see Surveying.	
market review, 1958 crop	5494	Topography, northern Shensi, land forms of Chang-Chu-Kou in Ching-Pien	14797
foreign agriculture circulars, 2643, foreign trade prospects	11182, 6214	see also Submarine topography.	
industries, 1958, statistics	540	Tornadoes:	
leaf, international trade, its effect on U.S. production, report	7443	it looks like a tornado, distinguishing from other cloud forms, handbook	5462
loose and tied, marketing practices and prices, hearing	1566	safety rules	5464
manufactured products and leaf exports, movement seasonal adjustment methodology	26	what they are and what to do about them	5465
manufactures—		Torpedomen, mate 1 and C, Navy training courses	6854
labor turnover rates per 100 employees	8002	Torrance, Calif.:	
manufacturing plants, location by county and employment size	7217	geology, hydrology and chemical character of ground waters of area	9123
prices and price indexes, 1957	902	population, special census	9709
Maryland, light air-cured, market review, 1958	5495	Torres, Gerardo R. Dobarganes y, see Dobarganes y Torres, Gerardo R.	
oriental, position in world production and trade	448	Torsion, see Strains and stresses.	
outlook for 1959 (statement)	1273	Tort claims, see Claims.	
price support level, stabilize and protect—		Total disability income premium rates for participating national service life insurance providing \$10 monthly income per \$1,000 insurance	2170
hearings	7440	Tourist trade, community success story	16492
reports	7399, 8683, 8698, 8811	Tourists:	
veto	9941	literature, free importation—	
production in Bulgaria	1916	hearing	12532
products, manufacturers, importers and dealers, regulations	6327	law	14095
products outlook (address)	17176	reports	4578, 14450
program problems, hearing	5907	potential of southeast Asia (text of address)	8249
regulations under tobacco inspection act of 1935	15272	Toward better understanding, Vice-President Nixon's visit to Soviet Union and Poland	17089
statistics 1958, report	5558	Toward common goal, program for economic development (address)	1179
stocks report	2221, 10676		
tobacco situation	2220, 10675		
warehouses, pyrethrum mists and aerosols for control of insects	11630, 17199		
Tobacco products, see Tobacco.			
Today's challenge and how to meet it (address)	8178		

# INDEX, 1959

	Entry		Entry
Towelling, flax, hemp, or ramie, Tariff Commission report.....	13640	Tractors—Continued	
Towers, antenna, wide-band shunt fed in USSR, description.....	820	wheeled, industrial, etc., organizational maintenance, technical manual.....	4302
Towns, <i>see</i> Cities and towns		wheeled, warehouse, gasoline and electric, test and inspection, military standard.....	357
Towns County, Ga., forest inventory statistics.....	9528	Tracy pumping plant, design and construction.....	13568
Townsend Valley, geology.....	1708	Trade, <i>see</i> Agricultural products—Business—Commerce—Retail trade—Wholesale trade— <i>also</i> names or classes of commodities.	
Towushend Dam and Reservoir, spillway and outlet works, hydraulic model investigation.....	8972	Trade agreements, <i>see</i> Commercial treaties.	
Toxicants, <i>see</i> Poisons.		Trade associations, technical research activities.....	6074
Toxicology:		Trade centers, <i>see</i> Shopping centers.	
medical radiology problems, USSR, radioactive ruthenium following administration through gastrointestinal tract, USSR studies.....	5105	Trade fairs, <i>see</i> Fairs.	
Soviet abstracts.....	743	Trade marks, <i>see</i> Trademarks.	
1826, 5032, 10315, 10319, 13001, 13038, 13077, 13083, 13095, 13098, 13108, 13119, 13174, 14880, 14909, 16584, 16591.		Trade practices:	
Toxins:		discrimination against small business concerns in suburban shopping centers, hearings.....	10056
clostridium botulinum C <sub>8</sub> , stability, contribution to knowledge.....	3680	rules for—	
staphylococcus, diffusional precipitation, USSR studies.....	5099	manifold business forms industry.....	10120
<i>see also</i> Botulism— <i>also</i> names of toxins.		outlet and switch box manufacturing industry.....	420
Toys:		peat industry.....	3490
industry—		sun glass industry.....	6179
midyear review and outlook for 1959.....	9688	work glove industry.....	7736
outlook for 1959 and review of 1958.....	1411	rules, proposed.....	11140
TP series.....	17082-83	Trade unions, <i>see</i> Labor unions.	
Trace elements, <i>see</i> Minerals.		Trademarks:	
Tracer studies:		code of Federal regulations.....	6155
biosynthesis of chlorophyll, use of tagged atoms.....	7138	conference, Lisbon, Portugal, Oct. 1958.....	8741
project prairie grass, field program in diffusion.....	1352-53, 17224	decisions, weekly.....	2873, 11412
tagged atoms applications in microbiology, conference transactions.....	7137	decisions, yearly, 1958—	
Trackage, railroad, adequate transportation facilities, etc., at naval establishments.....	17896	departmental edition.....	9449
Tracking:		document edition.....	8533
automatic interceptor errors caused by target maneuvers, study of methods for reducing.....	16833	fees paid by applicants to Patent Office, increase, report.....	12133
balloons, accuracy of RDF position fixes.....	146	general information.....	5370
control systems, comparison of zero-order and 4th-order aided compensatory systems as function of course frequency.....	6859	index, 1958.....	5371
manual compensatory task, study of effects of filtering.....	1127	laws, act of 1946, as amended, etc.....	2100
nonlinear linkage in power control system, ground simulator studies.....	6759	laws, investigation—	
optical-sight studies, air-borne target simulator use.....	955	expenses, report.....	3371
performance effects of changes in lateral-oscillatory characteristics of fighter airplane.....	16746	report.....	4729A
powered controls and fire control systems effects.....	15051	lists in official gazette.....	2873, 11412
systems, manual, interactions between display gain and task-induced stress.....	2085	publications, price list.....	10561
target data processing systems human-operated, problems in design.....	2089	regulations of—	
Tracking stations:		Egypt.....	9081
satellite program, agreement with Chile.....	10600	Korea.....	12715
sites on Grand Turk Island, agreement with Great Britain.....	10599	Netherlands.....	10155
Tractors:		Philippine Republic.....	14706
facts for industry.....	1471, 2371, 7213, 10902	Venezuela.....	3543
		rules of practice.....	4007, 9452
		Trades, <i>see</i> Occupations.	
		Trading stamps, <i>see</i> Stamps.	
		Trading with the enemy:	
		act, amend—	
		hearings.....	17360
		report.....	7562
		administration of act, investigation, expenses, report.....	3373
		<i>see also</i> Enemy property.	
		Traffic:	
		carload waybill statistics—	
		1956.....	3625
		1957.....	1733, 4960, 7878-80, 12789
		1958.....	12794
		speed trends.....	6918
		<i>see also</i> Air traffic—Transportation.	
		Traffic clerks, examination announcement.....	254
		Traffic control, <i>see</i> Air traffic.	

# JANUARY-DECEMBER

	Entry		Entry
Traffic decisions, <i>see</i> Interstate Commerce Commission.		Transbaykal, <i>see</i> Transbaikalia.	
Traffic safety, <i>see</i> Safety of life.		Transcribers, <i>see</i> Reporters and reporting.	
Trailers:		Transducers:	
dolly trailer converter and semi-trailer-----	6978	electrostrictive, acoustical theory of piezoceramic hollow sphere	8148
mobile homes, facts for industry, 1957-----	7202	theory of flexural piezoceramic circular plate sound radiators-----	9435
saber fire fighting, technical manual-----	9652	Transfer of heat, <i>see</i> Heat transfer.	
truck-----		Transformers, <i>see</i> Electric transformers.	
facts for industry-----	2371, 8457, 10902	Transfusion of preserved blood collected by 2-stage method, USSR-----	611
industry, outlook for 1959 and review of 1958-----	1433	Transistors:	
Train control devices, statistics-----	549	basic theory and application, technical manual-----	7135
Trainers (devices):		catalog of technical reports, 1949-58-----	11762
Naval Training Device Center guide to training devices and aids, revised pages-----	10543, 16997	fabrication, use of photolithographic techniques-----	5364
Training:		Federal supply schedule-----	408
apprenticeship and training information releases-----	2317, 10764	radio frequency tuners and I-F amplifiers-----	13777
apprenticeship, development of skills for changing technology (address)-----	10392	Transit temperatures of California lettuce-----	1312
industrial, programs in Mercer County, N.J., study-----	15371	Transit Workers Union of America, AFL-CIO, Air Transport Division, emergency board report-----	12600
management, farmer cooperatives-----	10093	Translating machines:	
PACAF basic bibliographies-----	9638	Soviet developments-----	
participant, industrial development, sharing knowledge and skill-----	12787	information-----	1740, 1743, 6400, 7889, 9175, 9186, 10217, 12903, 16505
programs-----		information processing-----	17559
Communicable Disease Center, 1958-59-----	15165	Russian sentence analysis-----	1746
Communicable Disease Center, 1959-60-----	15166	Translations:	
interagency, spring 1959-----	3228	Air Force Department-----	13753-772
interagency, fall 1959-----	13889	foreign languages, mechanical translation by high speed electronic computers-----	6878
psychiatric mental health traineeships for nurses-----	8105	nonferrous metallurgy, USSR-----	9202
specialists in peaceful utilization of nuclear power, in USSR-----	5121	scientific, sources and services, guide-----	5324
traineeships and training grants, awarded by N.I.H., 1959-----	16947	Ships Bureau-----	1165
Veterans Administration training guides-----	13655-656, 17887	Soviet-bloc IGY-----	3647
<i>see also</i> Education—Employee training—Job analysis—Military education—Naval education—Staff training—Vocational education— <i>also</i> subjects.		ionosphere studies-----	3665
Training aids, training device guide, revised pages-----	10543, 16997	literature-----	6381, 7891-92, 7895, 7900, 7912-13, 9187, 12868, 14801
Training of employees, <i>see</i> Employee training.		technical—	
Trains, <i>see</i> Ambulance trains—Railroads.		list and abstracts, Office of Technical Services-----	2342, 10870
Traits of character, <i>see</i> Character.		National Aeronautics and Space Administration-----	15086-87, 17759-761
Trajectories:		Transliteration table, Arabic language-----	3829
air particles, prognosis, USSR problem-----	1902	Transmission lines, <i>see</i> Electric lines.	
curvilinear flight used to analyze kinematics of avoidance of collision between aircraft-----	17801	Transmitters:	
for descending satellites, circular transfer orbit, description and analysis-----	17764	marker beacon, ILS, CAA specification-----	226
optimal flight, piecemeal solutions in programming-----	17759	radio-----	
optimum climbing for rocket-powered aircraft, approximate solutions-----	16920	c-w and a-m, technical manual, change-----	13788
optimum flight for turbojet-powered aircraft, approximate solutions-----	16922	LF/MF CAA specification-----	228
store motion during release or ejection, prediction techniques-----	6740	modulator MD-203/GK, installation and organizational maintenance, technical manual-----	9653
Tranquilizing drugs, <i>see</i> Reserpine.		telemetry transmitting equipment requirements for missiles and aircraft, military standard-----	1585
Transbaikalia, tin and tin-tungsten deposits of Transbaykal, genesis-----	7927	Transonic aerodynamic characteristics of several bodies having elliptical cross sections and various plan forms-----	13447
		Transonic flow, <i>see</i> Flow.	
		Transonic rotors, <i>see</i> Rotors.	
		Transonic speed, <i>see</i> Air speed.	
		Transosonde, balloon-borne meteorological station, environmental factors affecting altitude performance and control-----	13517

# INDEX, 1959

	Entry
Transpiration, cooling to alleviate aerodynamic heating on 8° cone in free jet	1030
Transplantation (physiology):	
endocrine glands, USSR study	3738
homoplastic, spleen, for therapy of acute radiation sickness, USSR study	14927
organs and tissues, tissue, incompatibility, all-Union conference	7910
Transport aircraft, <i>see</i> Aircraft.	
Transport airplanes, <i>see</i> Airplanes.	
Transport numbers, ions in fused salt systems	15402
Transportation:	
act of 1958, railroad loan guarantees, opinion of Attorney General	5157
adequacy in event of mobilization, investigation, hearings	17330
air—	
courses offered in colleges and universities, list	1595
military, transportation investigation, committee recommendations, executive action on—	
hearings	9910
report	15871
service in Alaska (address)	11821
use for mail other than air mail—	
hearings	14574
report	16081
airlift service, Air Force Industrial Fund, Air Force manuals	1346, 4227, 8360
allowances erroneously furnished to naval service members, relieve from liability—	
law	8512
reports	5836, 16043
Boy Scouts of America to world jamboree—	
law	7310
reports	5860, 7558
California lettuce, transit temperatures	1312
California mature-green tomatoes rail, transit temperatures	13731
canned foods	15482
Chinese People's Republic, development, etc.	12897
coal, underground by hydraulic methods, literature survey	13316
code of Federal regulations	3472, 6147, 6159, 7723
D.C. Transit System, Inc., regulation of operation—	
hearings	15950
report	15926
defense, general picture (address)	7265
developments in policy (address)	15553
economics monthly comment	2719, 11258
equipment—	
Government-owned inventions available for license	11868
imports, comparison with U.S. production and exports	1668, 17449
labor turnover rates per 100 employees	8003
manufacturing plants, location by county and employment size	7224
explosives—	
amend U.S. Code, hearings	12299
explosives and other dangerous articles, civil aeronautics manual	1615
military, and hazardous munitions on board vessels, requirements governing	1503
revision of act, report	16126
Federal agencies, G.A.O. guidance manual	6278, 17481-482

	Entry
Transportation—Continued	
freshly killed beef, rail car and piggyback	11633
grain—	
potential effects of St. Lawrence Seaway on costs	5550
through terminal and storage elevators	9727
healing precut potato seed pieces during transit	13683
importance, development, etc. (address)	4409
interstate, animals and poultry, code of Federal regulations	9597
interstate, live fish and eggs, clarify black bass act—	
law	14060
reports	12151, 14485
land, radio services, FCC rules and regulations	7701, 12637
land, sea, and air, problems of coordinating (remarks)	8992
lines—	
Atlantic, Gulf and Pacific Coasts, 1958	1606
Great Lakes system, 1959	8971
liquefied gases, conventional equipment and techniques	2056
livestock and poultry, enforcement of regulations, guide	15292
livestock, losses, causes, etc.	8978
manuals, Air Force manuals	4216-17, 7092
marketing and transportation situation	2213, 10668
National Capital region, <i>see</i> , below, Washington metropolitan area.	
National Capital Transportation Authority, draft legislation staff report	17362
operation and maintenance of locomotives, machine management sector of East German Reichsbahn	810
outlook at national level (address)	7268
Poland, information on—	
policies, investigation, authorization, report	4717
policy, recent developments	4139
progress, potential effects of St. Lawrence Seaway (text of address)	9750
property and personnel, Air Force manuals	4216-17, 7092
publications, price list	13554
pupils—	
characteristics of State plans for financing	1593
selected references	6101
situation, Commerce Department study (remarks)	7254
statistics in United States, 1957	550, 1738
statistics in United States, 1958	9154, 16502
transportation series, Engineer Corps	1606, 8971, 16270
tropical, ATEOG investigation	17141
underground transport in Russian coal mines, development of technics	553
Washington metropolitan area—	
mass transportation survey report, 1959	13460
problems, hearings, print additional copies, report	7423
statistical program, establish, staff study	1572
water—	
fleet and port operations, People's Republic of China	1752
from sails to atomic power (address)	4817



# JANUARY-DECEMBER

	Entry		Entry
Transportation—Continued		Trawls and trawling—Continued	
to Alaska, F. M. B. programs and policies (remarks)-----	3463	midwater, use and accuracy of electrical depth telemeters-----	1637
wheat, special economic assistance agreement with Yemen-----	17117	Trays, display of produce in retail stores, equipment specifications-----	27
Yakutskaya ASSR, problems in development-----	9203	Trbojevic, Petar, relief-----	5976, 8615, 11907
see also Air carriers—Freight rates—Motor carriers—Railroads—Roads and highways—Ships.		Treason, see Conspiracies.	
Transportation Agency, New York-New Jersey, see New York-New Jersey Transportation Agency.		Treasury:	
Transportation Authority, see National Capital Transportation Authority.		daily statement-----	2971, 11520
Transportation Environmental Operations Group, Army, see Army Transportation Environmental Operations Group.		decisions-----	
Trap for removing ferric chloride from titanium tetrachloride-----	943	Jan.-Dec. 1958-----	13652
Travel:		weekly-----	2975, 11523
Air Force civilian personnel, manual-----	4209	Treasury bills, department circular-----	8261
allowances, escorts of dependents of uniformed services-----		Treasury bonds, see Bonds of United States.	
law-----	14015	Treasury certificates of indebtedness:	
reports-----	4599, 12479	3% percent, series E-1959-----	1217
Army personnel dependents at Government expense, information pamphlet-----	5625	3% percent, series A-1960-----	4114
construction workers, expenses, etc., income tax deduction disallowance, investigation, hearings-----	1550	4 percent, series B-1960-----	9534
dependents to overseas areas, information, Army pamphlet-----	4296	Treasury Department:	
expenses, retired judges, official station-----		appropriations 1960-----	
law-----	15677	hearings-----	4632, 7603
reports-----	15853, 16180	law-----	9771
Federal judges' subsistence allowance, increase-----		proposal-----	12336
law-----	14001	reports-----	5866, 8087, 8816
reports-----	4582, 12458	budget, 1960, amendment, proposal-----	4458
Government employees, per diem allowance, increase-----		bulletin-----	2974, 11522
hearings-----	12288	comments on mutual security program-----	7466
report-----	12181	department circulars-----	1217-18, 2166-67, 4112-15, 6982-85, 8261-62, 9533-34, 13650-651, 17142-145, 17883-884.
views-----	12181	Government securities market study-----	
International-----		report-----	14646
immunization information-----	15170	summary-----	14637
information sources, list-----	6217	releases-----	2976, 11524
surveys and statistical studies, publications list-----	6217	report, 1958-----	
U.S. participation-----	452	departmental edition-----	5447
joint regulations, changes-----	1208, 4098-99, 5438, 6970, 8254, 9526, 13633-634, 15222, 17130, 17876	document edition-----	4437
manuals, Air Force manuals-----	4216-17, 7092	Secretary to settle claims arising from noncombat activities of Coast Guard-----	
Navy instructions-----	15143	law-----	14074
right to travel, legal opinions, staff study-----	327	reports-----	5834, 5885, 14516
right to visit Communist China, denial of passports to correspondents, hearing-----	339	Treasury financing and debt management (remarks)-----	4116
rights of U.S. citizens protect, hearings-----	14560	Treasury notes:	
transatlantic charter trips, CAB regulations-----	9731	3 1/4 percent, series B-1960-----	4112
Traveling wave antenna with active coupling impedance, USSR-----	17562	3% percent, series B-1961-----	1218
Trawls and trawling:		4 percent, series B-1963-----	6984
bottom explorations off southeastern Alaska, 1956-57-----	4850	4 percent, series D-1962-----	4115
double-rig shrimp trawling in Gulf of Mexico-----	434	4 1/2 percent, series A-1964-----	13651
Gloucester's trawl industrial fishery landings, summary-----	428	4 1/2 percent, series C-1960-----	13650
manilla otter-trawl cod ends, certification-----	4849	5 percent, series B-1964-----	17145
		Treaties:	
		and other international acts series. 1199-1207, 2152-58, 4078-96, 5421-36, 6954-68, 8235-31, 9510-25, 10596-608, 13613-632, 15204-221, 17098-17128, 17859-875	
		and other international agreements, 1958-----	10609
		in force, list-----	4097
		see also Commercial treaties—also subjects.	
		Tree planting:	
		conversion of poor hardwood stands to conifers-----	7811
		effect of stock treatment upon field survival, tree planters' notes-----	16452
		manual-----	8956
		stock, commercial dealers, directory-----	12757
		see also Forest planting.	
		Tree seeds, see Seeds.	
		Trees:	
		Albania, description, etc-----	856
		bracing-----	13493
		decay, publications, list-----	10171
		fast-starting species planted in Iowa-----	12725

# INDEX, 1959

	Entry		Entry
Trees—Continued		Trouble shooting:	
felled, method of estimating cubic		accuracy of information on line	
volume.....	16438	work orders.....	5609
forest.....		electronics, ability, rigidity meas-	
diseases, survey in Northeast.....	490	ures, non-intellectual correla-	
plantations in northern lower		tion study.....	3127
Michigan, 1957.....	3571	Trout:	
seed crop in New England, report,		cutthroat, annotated bibliography.....	1640
1958.....	7832	enhanced survival, growth, repro-	
grading for quality, July 1955-57.....	7819	duction, and catch, effect of	
grading systems as means of meas-		stream reclamation project on	
uring quality, research pro-		Indian and Abrams Creeks.....	12691
gram.....	3574	kidney disease, methods of infect-	
hardwood, butt-log grading works		ing, etc.....	7757
in Ohio.....	9091	steelhead in Wenatchee River,	
newly planted, mulching can be		biology.....	14674
detrimental.....	12724	Troy, N.Y., Oakwood Cemetery, recog-	
nursery products, production and		nize grave of Samuel Wilson as	
sales, 1957 and 1958.....	8286	national shrine, report.....	12127
physiology, bibliography.....	1702	Troy lock and dam, navigation con-	
planting and maintenance manual.....	8956	ditions, hydraulic model in-	
species recommended for strip-mine		vestigation.....	14604
plantations in western Ken-		Truck trailers, see Trailers.	
tucky.....	9092	Trucking, see Motortrucks in freight	
specific gravity, estimating from		service.	
single increment core.....	12730	Trucks, see Motortrucks.	
tree preservation bulletin.....	13493	Trudy Ukrnigmi (periodical):	
vegetation of northwest North		review of poor quality of research	
America, as aid in interpreta-		and scientific writing in 13th	
tion of geologic data.....	1710	and 14th issues, 1958.....	17570
see also Christmas trees—Forest		Truman, Harry S. Library, see Harry	
planting—Fruit—Hard-		S. Truman Library.	
woods—Nuts—Tree planting—		Trust funds, see Trusts and trustees.	
also names of trees.		Trust Territory of Pacific Islands:	
Trematopora, revision of Silurian		administration, report to United	
bryozoan genus.....	17846	Nations.....	9507
Trends in savings and loan field.....	401	geologic names, index.....	17485
TREG, see Army Transportation		High Commissioner, report, 1958.....	4949
Environmental Operations		Trustees in bankruptcy:	
Group.		closing fee, increase, report.....	16072
Triangulation, see Surveying.		powers, amend bankruptcy act, re-	
Triassic period:		ports.....	14205, 15804
Colorado Plateau region, stratig-		Trusts (industrial):	
raphy.....	16457	antitrust laws—	
rocks, uranium deposits, Colorado		applicability to commercial ac-	
Plateau region.....	12763	tivities of organized profes-	
Tribolium castaneum, see Beetles.		sional team sports, hearings.....	338, 16214
Tribolium confusum, see Beetles.		basis for economic freedom, com-	
Tribuytl, see Butyl phosphates.		pilation.....	312
Trichlorophenoxyacetic acid:		consent decree program of Justice	
better in diesel oil.....	6275	Dept., report.....	8742
use in treating Ozark hardwoods.....	10184	enforcement, compel documentary	
Tri-City Airport, aircraft accident.....	15504	evidence in civil investiga-	
Trilinear charts for nuclides, revision		tions—	
sheets.....	10776	hearing.....	7632
Trinity River, Bardwell Reservoir,		minority views.....	12399
construction, report.....	6034	report.....	12399
Tripartite Nuclear Cross Sections		investigation—	
Committee, minutes of technical		authorization, report.....	3368
portions of 4th meeting,		expenses, report.....	12511
May 20-22, 1958.....	4332	report of findings.....	4722
Trips, see Travel.		milk cooperatives, group bargain-	
Troops, see Armed Forces.		ing, exempt, report.....	7546
Tropical products, see Agricultural		stock distributions, tax treat-	
products.		ment—	
Tropical sprue, studies of U.S. Army's		hearings.....	12322, 12531
sprue team in Puerto Rico.....	8391	report.....	15882
Tropics, transportation, ATEOG in-		strengthen and supplement, hear-	
vestigation.....	17141	ings.....	12554
Tropopause, oscillations of altitude		cartels, register and filing proce-	
under synoptic processes,		dures under new German law.....	459
USSR study.....	7902	concentration in American indus-	
Troposphere:		try, report, additional copies,	
heat and cold source regions con-		report.....	14728
nection of barometric field		law-enforcement activities affecting	
near ground, USSR studies.....	7904	small business, report.....	3290
lower and middle, non-zonal shift		restrictive business practices con-	
in height of absolute topog-		ference, proceedings.....	10049
raphy, USSR studies.....	10332	small business right to buy, 1959,	
precalculation of pressure for		staff study.....	12569
Northern Hemisphere, USSR			
study.....	7939		
thermal vertical currents, USSR			
investigation.....	1950		

# JANUARY-DECEMBER

	Entry		Entry
<b>Trusts and trustees:</b>		<b>Tuberculosis—Continued</b>	
common trust funds survey, 1958...	9011	arrested, service connected, stat-	
corporations of D.C., limitation on		tutory award to veterans, pay-	
number of trustees, eliminate—		ment without filing claim,	
law.....	11970	report.....	8681
reports.....	8630, 10012	chart series.....	1154, 17058
employee benefit plans, tax exemp-		death rates by age, color, and sex,	
tion qualification determina-		1949-51—	
tion procedures under internal		all forms.....	3961
revenue code.....	7872	respiratory system.....	3962
fiduciary income tax returns, 1956...	10199	various forms.....	3963
Government trust funds, issuance of		general information, health infor-	
obligations at issue price—		mation series.....	8192
law.....	15711	pulmonary, interviewing guides	
reports.....	14319, 14541, 15891, 15924	for specific disabilities.....	8953
views.....	14319, 14541	reported data, 1956.....	4028
highway trust fund—		<b>Tuberculosis in animals:</b>	
amend act—		eradication—	
hearing.....	14557	Federal-State cooperation status	
report.....	15886	(address).....	1292
financial condition and opera-		in cooperation with States, sum-	
tion, report.....	4467	mary.....	10737
problems incident to operation,		State-Federal cooperative pro-	
hearings.....	14361	gram, statistical tables, 1958...	1284
internal revenue code of 1954, sub-		<b>Tubes:</b>	
chap. J, changes recommended		electron multiplier, high-current	
by advisory group—		grid-controlled, design, etc....	13514
final report.....	5939	Federal item identification guides	
hearings.....	5938	for supply cataloging.....	8920
summary.....	9933	flash, containing beta-ray-gun	
legal investments for trust funds		electrode to guide electric	
in D.C., list.....	8410, 12589	discharge, examination.....	10536
pension and other employee trusts,		metallic, plastic flow throughout	
exempt from D.C. laws relating		volume of thin adhesive	
to perpetuities, restraints on		bonds.....	1679
alienation, etc.—		sampling, lacquering for protection	
law.....	15612	against corrosion.....	14606
reports.....	14211, 14460	steel pipeline tubing, vinyl-lacquer	
supplemental unemployment ben-		coating for interior.....	4789
efit trusts, income tax exemp-		<b>Tubes (inner), see Inner tubes.</b>	
tion, report.....	15895	<b>Tubing, see Tubes.</b>	
trust indenture act of 1939—		<b>Tucson Magnetic Observatory, mag-</b>	
amend, hearings.....	14554	netograms and hourly values.....	3242, 17302
releases, SEC.....	2932, 11476	<b>Tug Fork:</b>	
union trusteeships, required reports		flood control, engineer report—	
and legal standards, labor-		departmental edition.....	375
management reporting and dis-		document edition.....	326
closure act of 1959.....	17664	<b>Tularemia:</b>	
<b>Tse Man Chan, see Chan, Tse Man.</b>		pathogen, certain differences in old	
<b>Tse-Tung Mao, see Mao Tse-Tung.</b>		and new world, USSR study.....	17647
<b>Tseng, Su-Ming, relief.....</b>	7530	vaccine-prophylaxis studies, USSR...	9251
<b>Tsin-Tsai Liu:</b>		<b>Tulelake, Calif:</b>	
consultation with staff of Un-Amer-		durum wheat—	
ican Activities Committee.....	8756	acreage allotments, increase, re-	
print additional copies, report.....	14284	port.....	14438
<b>Tsinghai Province, China:</b>		exempt from acreage allotments,	
five year development plan, 1957-		etc., hearing.....	6043
62.....	9168	<b>Tuliptree, seed, variations in quality...</b>	14711
five-year plan results.....	14878	<b>Tumacacori National Monument, gen-</b>	
People's Council, work report (ad-		eral information.....	15117
dress).....	1757	<b>Tumors:</b>	
work report 1958, and 1959 plans...	16576	apparatus for diagnosis with aid of	
<b>Tsing-hua University, scientific re-</b>		ultra-sound, USSR studies.....	10349
<b>search work, socialist ap-</b>		atlas of tumor pathology.....	4758, 16236
<b>proach.....</b>	9217	benign neoplasms, death rates by	
<b>TSO series.....</b>	10098-99, 16312, 17401	age, color, sex, U.S., 1949-51...	6822
<b>Tsoukalas, Stephanos, relief.....</b>	7516, 11912	biological anti-radiation protection	
<b>Tsunami (tidal wave):</b>		during experimental X-ray	
communication plan for sea warn-		therapy.....	625
ing system.....	3235	changes during treatment with sar-	
forecasting by observations of super		colysin and dopan, USSR.....	1889
long range propagation of		cure of rat sarcoma by sarcolysin	
sound in ocean, USSR paper...	5152	with aid of vital luminescent	
seismic-acoustic investigations		fluorescopy method.....	1892
conducted during voyage of Vit-		<b>lymphosarcoma and other neo-</b>	
yaz, USSR studies.....	3804	<b>plasms of lymphatic and hema-</b>	
<b>Tsuya Tscan.....</b>	188	<b>topoietic tissues, death rates,</b>	
<b>Tuberculosis:</b>		United States, 1949-51.....	6821
aliens, extend time to grant wai-		malignant neoplasms, death rates	
vers of exclusion, amend immi-		by age, color, and sex, 1949-51...	10516
gration and nationality act—		breast.....	10520
law.....	14090	buccal cavity and pharynx.....	10517
reports.....	7378, 12415	digestive organs and peritoneum...	10518
		genital organs.....	10521

# INDEX, 1959

Entry	Entry
<b>Tumors—Continued</b>	<b>Turbines—Continued</b>
malignant neoplasms, death rates by age, color, and sex, 1949-51—continued	air-cooled—
other and unspecified sites.....	static sea-level performance of axial flow compressor turbojet engine.....
respiratory system.....	6709
malignant, problem of drug therapy, USSR study.....	air-cooled, 2-stage suitable for flight at Mach number 2.5—
pancreas.....	blade design.....
Soviet abstracts.....	16795
transplantable and transmissible tumors of animals.....	velocity-diagram study.....
4758	16794
urinary bladder.....	auxiliary steam, Bureau of Ships manual.....
8917	5403
see also Antibiotics.	axial-flow—
<b>Tuna fish:</b>	counterrotating two-spool turbojet engines, off design.....
age determination by hard parts of albacore from central north Pacific and Hawaiian waters.....	992
7749	limitations imposed on one-spool ducted-fan-engine designs at flight Mach numbers 0.6, 0.8, suitable for auxiliary power drives, effect of size on performance.....
16376	6790
American and Japanese albacore in Pacific, survey through examination of catch statistics.....	2-spool turbojet engine performance, effect of design over-all compressor pressure ratio division.....
4851	16783
canned, quality improvement studies.....	16378
exploratory long-line fishing in Gulf of Mexico and Caribbean Sea, 1954-57.....	12681
larvae of 4 species, description and distribution in central Pacific waters.....	6189
sexual maturity and spawning of albacore in Pacific Ocean, study.....	7747
9044	United States fishery, 1911-58.....
431	yellowfin, color and quality of canned Gulf of Mexico tuna.....
<b>Tung nuts:</b>	
cutting, hauling and processing costs.....	31
marketing, improving.....	103
Tung Shu, see Shu Tung.	
<b>Tungsten:</b>	
deposits, location by use of heavy-mineral concentrates in geophysical prospecting.....	3603
minerals yearbook chapter.....	16736
production, etc., 1958.....	10439
production from domestic mines, stabilizing, hearings.....	3330
report, monthly.....	2837
tensile properties from 2500° to 3700° F.....	5298
tin, genesis of deposits of Transbaykal.....	7927
wrought sintered, high-temperature tensile properties.....	16904
Tungsten carbide, tungsten-carbide-uranium compacts of high density and high hardness, preparation.....	1140
Tung-ting-shan, East in West, land forms.....	12838
Tuning devices (radio), see Radio tuning devices.	
<b>Tunisia:</b>	
economic developments, 1958.....	10148
economic, technical and related assistance, agreement.....	2153
guaranty of private investments, agreement.....	10603
mutual security in action, fact sheet.....	4076, 6953
sending gift packages to.....	17440
<b>Tunnels, Pioneer and Cascade, precast reinforced concrete sets, design and installation.....</b>	<b>918</b>
<b>Tupelo-Baldcypress Swamp, Natchez Trace Parkway, general information.....</b>	<b>15118</b>
<b>Turbine blades, see Blades.</b>	
<b>Turbines:</b>	
air bleed at compressor outlet, effect on acceleration characteristics in turbojet engine.....	5228



# JANUARY-DECEMBER

	Entry		Entry
<b>Turbines—Continued</b>		<b>Turkey—Continued</b>	
matching, acceleration and deceleration of 2 hypothetical turbojet engines, operating trends.....	3896	labor survey.....	9301
return-flow rotor blade design, coolant flow and pressure requirements.....	6722	loan of submarines, extension—	
single-stage—		hearings.....	4641, 12525
having rotor-tip discharge of cooling air, analytical investigation of factors affecting performance.....	10473	law.....	11958
with downstream stator, design and experimental investigation.....	3901	reports.....	4600, 5857, 8819
stator adjustment effect on acceleration characteristic of high-pressure-ratio single-spool turbojet engine.....	16781	text.....	17866
stator blades, comparison of results of studies of blade-outlet boundary-layer characteristics.....	5246	loan of vessels, agreement.....	1201
steam, industry, outlook for 1959 and review of 1958.....	1449	mineral industry, information circular.....	916
structural design and preliminary evaluation of lightweight, brazed, air-cooled rotor assembly.....	1079	sending gift packages to.....	16418
tail-pipe burner equipped with variable-area exhaust nozzle using several fuel systems and flame holders, altitude performance.....	16765	surplus agricultural commodities, agreement.....	2158, 15220
transonic—		5429-30, 6960, 15220	
analytical predicting of off-design performance.....	16777	<b>Turkeys:</b>	
effect of reduction in stator solidity on performance.....	3898	breeder hens on farms, Jan. 1, 1959.....	5505
effect of rotor leading-edge sweepback on performance.....	16784	farm production, etc., 1957-58.....	7016
effect of stator and rotor aspect ratio on performance.....	3935	frozen, shipping containers.....	11640
rotor-blade suction-surface relative Mach number 1.57, investigation.....	979	marketing spreads, selected cities.....	9568
transpiration-cooled blade with wire-cloth shell, exploratory engine test.....	3891	national improvement plan—	
turbojet engine, temperatures in altitude test stand.....	6713	changes, conference report.....	1291
wheel of turbojet engine, evaluation of compressor bleed system for rim cooling.....	6699	distribution by States and varieties.....	50
<b>Turbo propeller engines, see Engines (aircraft).</b>		hatcheries, dealers, and independent flocks, participants, 1959.....	4155, 5509-10, 8295
<b>Turbojet engines, see Engines (aircraft).</b>		hatchery and flock participation, tables.....	17185
<b>Turbopumps, design effect on gross-weight, characteristics of hydrogen-propelled nuclear rocket.....</b>	<b>10495</b>	performance test, 1958.....	1279
<b>Turbulence:</b>		provisions.....	4187
characteristics at high altitudes.....	4263	record of performance, 1957-58, statistics.....	15285
contribution to half-widths of solar absorption lines.....	8222	on table year round, preparing, cooking, recipes.....	95
isotropic atmospheric, evaluation of methods for calculating symmetrical bending moment response of flexible airplanes.....	6761	pricing, comparison of 2 methods.....	15321
<b>Turbulent flow, see Flow.</b>		sold in San Francisco, marketing costs and price spreads.....	7056
<b>Turkey:</b>		tested by official State agencies, monthly report.....	2267, 10719
atomic energy, cooperation for mutual defense purposes, agreement—		<b>Turkmen Soviet Socialist Republic, public health, book review.....</b>	<b>16625</b>
hearings.....	12026	<b>Turn east toward Asia, 6th national conference report.....</b>	<b>5416</b>
reports.....	12158, 12170, 12433	<b>Turnouts, railway, with bolted rigid frogs, military standard.....</b>	<b>1586</b>
text.....	17109	<b>Turpentine, see Naval stores.</b>	
chromite mining, economic study.....	10452	<b>Turtle Creek:</b>	
cooperation agreement.....	6968	flood control, engineer report—	
economic assistance agreement.....	17105	departmental edition.....	391
establishing business.....	7770	document edition.....	294
import tariff system.....	10158	<b>Tuscaloosa, Ala., Mines Bureau carbonizing tests on coke comparison of wet- and dry-quenched methods.....</b>	<b>13365</b>
labor law.....	6227	<b>Tu-shih-pa-ka, semiagricultural and pastoral area of Inner Mongolia autonomous region.....</b>	<b>9170</b>
		<b>Tussock moths, defoliation of white fir, number of trees killed in California, 1957.....</b>	<b>1672</b>
		<b>TV, see Television.</b>	
		<b>TVA, see Tennessee Valley Authority.</b>	
		<b>Twig borers, insecticide test.....</b>	<b>3586</b>
		<b>Twin Cities Arsenal:</b>	
		lease part of independent school district no. 16—	
		law.....	15719
		reports.....	12242, 14537
		<b>Twine, manufacture, earnings, summary release.....</b>	<b>9296</b>
		<b>Twitchell Dam and Reservoir, report on history, etc.....</b>	<b>4043</b>
		<b>Two-coat system of house painting.....</b>	<b>6244</b>
		<b>Two-dimensional transonic, investigation of flows and forces on 9-percent-thick airfoil with 30-percent-chord flap.....</b>	<b>6745</b>
		<b>2,4,5-T, see Trichlorophenoxyacetic acid.</b>	
		<b>Two-stage method of collecting blood, USSR.....</b>	<b>610</b>
		<b>Tynes, Mrs. Tyra F., relief.....</b>	<b>4488</b>
		<b>Type reactions in fermentation chemistry.....</b>	<b>7038</b>

# INDEX, 1959

	Entry		Entry
Typewriters:		Ultraviolet and near infrared absorp-	
facts for industry.....	2371, 4360,	tive coating materials and	
industry, outlook for 1959 and re-	10902	techniques for their applica-	
view of 1958.....	1444	tion.....	15367
seven keys to better, faster typing,		Ultraviolet rays:	
manual.....	17299	biological effect, USSR conference..	12957
world trade, 1948-58.....	9701	degradation of polymers.....	6858
Typewriting:		solar, dosimeter for measuring.....	12963
elementary 2, study guide.....	1578	use to prevent droplet infections..	831
government publications, list.....	15158	UN, see United Nations.	
seven keys to better, faster typing,		Un-American activities:	
manual.....	17299	convicted Government employees,	
Typhoid fever:		restoration of annuities.....	
death rates by age, color, and sex,		hearings.....	5933, 7643
1949-51.....	3965	reports.....	5889, 5896, 6013
irradiated organism influence on		extent, etc., investigation.....	
virulent properties of mi-		expenses, report.....	16087
crobes.....	840	extension, report.....	3366
Typhus fever, death rates by age,		penalties, enforce State laws.....	
color, and sex, 1949-51.....	10514	report.....	8692
Typists, government publications,		views.....	8692
list.....	15158	proposed antismuggling legisla-	
		tion, hearings.....	8903, 16212
		subversive activities control act of	
		1950, amend, report.....	15877
		see also Communism.	
		Un-American Activities Committee,	
		House:	
		annual report, 1958.....	4616
		additional copies, report.....	7371
		communist espionage patterns, re-	
		port.....	1557, 7334
		additional copies, report.....	7368
		hearings, etc.....	322,
		5936, 7488-89, 8756-59, 12316-	
		318, 14358, 15971-976, 17343.	
		investigations and studies, ex-	
		penses, report.....	3311
		members defense in suits, report..	8661
		reports.....	4555, 4616,
		5890, 14314, 15877-878, 15888	
		what it is, what it does, questions	
		and answers.....	7333
		print as document, report.....	7367
		Under Secretary of State, see State	
		Department.	
		Underemployed, see Unemployed.	
		Undergraduates, see Students.	
		Understory plants of bottomland for-	
		ests.....	6274
		Undertakers and undertaking, mortu-	
		ary affairs, Air Force man-	
		ual.....	3105
		Underwater cable guidance system..	6981
		Underwater sound, see Sound.	
		Underwear, knit, facts for industry..	2372,
			10903
		Undue influence, communications on	
		matters pending for adjudica-	
		tion, prohibit, hearing.....	340
		Unemployed:	
		agriculture, low income problem	
		(paper).....	15294
		alleviate unemployment by de-	
		pressed area redevelopment.....	
		hearings.....	4737, 5922, 6049
		reports.....	5992, 7426
		views.....	5992, 7426
		combined employment and unem-	
		ployment release.....	2354,
		2727, 10885, 11265, 11287	
		credits against unemployment tax	
		in case of certain merged	
		corporations, report.....	15845
		farm, technical advance and migra-	
		tion impact (address).....	17188
		historical and comparative rates,	
		hearings.....	8525
		insured, characteristics, monthly	
		report.....	2725
		spring 1959, study by Department	
		of Labor.....	9281
		unemployment in America (ad-	
		dress).....	9282
		see also Unemployment insurance.	
U			
U.N.E.S.C.O., see United Nations Ed-			
ucational, Scientific and Cul-			
tural Organization.			
U.S.A.F.I., see Armed Forces Insti-			
tute.			
U.S.D.A., see Agriculture Depart-			
ment.			
U.S. fighting man's code.....	15372		
U.S.S.R., see Union of Soviet Social-			
ist Republics.			
UAR, see United Arab Republic.			
Uchacz, Martha, relief.....	12386		
UHF television, see Television.			
Ukr SSR, see Ukrainian Soviet Social-			
ist Republic.			
Ukrainian Hydrometeorological Scien-			
tific Research Institute, Works			
of, see Works of Ukrainian Hy-			
drometeorological Scientific			
Research Institute (USSR pe-			
riodical).			
Ukrainian Society of Physiologist,			
Biochemist and, Pharmacolo-			
gists, conference on questions			
of chemical basis of genetics..	5143		
Ukrainian Soviet Socialist Republic:			
Academy of Sciences, reports, ab-			
stracts.....	7185		
medical problems approved for			
study, 1959-65.....	6620		
scientific research.....			
chemical basis of genetics.....	5143		
detection of micro-organisms in			
air.....	3800		
elements of general theory of			
combined cybernetic theory..	12951		
experimental effect of purified			
microcide on fixed rabies and			
smallpox viruses.....	3799		
incorporation of radioactive			
methionine S-35 in proteins of			
BK-8 blood substitute prep-			
aration in vitro.....	5142		
microbiology, prospect for devel-			
opment 1959-65.....	12979		
peculiarities of nucleoproteid			
complexes in rabbit lungs after			
X-ray irradiation.....	5141		
physico-chemical mechanics of			
materials.....	6422		
Ukrainian mathematics journal,			
abstracts.....	10873		
Ulcers:			
radiation, amnion tissue dressing,			
direct application, Chinese			
study.....	9198		
stomach and duodenum, death			
rates by age, color, and sex,			
1949-51.....	15104		
Ultrasonics, see Sound.			

# JANUARY-DECEMBER

	Entry		Entry
Unemployment, <i>see</i> Technological unemployment—Unemployed.		Union of Soviet Socialist Republics—Continued	
Unemployment compensation, <i>see</i> Unemployment insurance.		Academy of Medical Sciences—Con-	
Unemployment insurance:		international connections and	
benefit series service.....	2498, 11029	course for research 1959-65	
characteristics of insured unemployed, monthly report.....	2725	discussion in Presidium.....	7911
claims.....	2506, 11037	Medico-Biological Sciences Division, research activities.....	7899
employer's tax guide.....	4952	natural nidal character of human diseases, discussion in Presidium.....	12043
employment, etc., of covered workers.....	2500, 11031	scientific research work of institutions, results.....	14915
employment security research exchange.....	8951	Academy of Sciences—	
employment security review.....	2501, 11032	Institute of Oceanography, chemical research in Far Eastern waters, etc.....	16542
Federal employees eligibility, treat accrued leave in accordance with State laws, report.....	4589	Institute of Physics Imenl P. N. Lebedev, organization, achievements, etc.....	800
Federal laws, proposed amendments, hearings.....	8765	Institute on Physics of Earth seminar on surface seismic waves.....	9253
Federal workers covered, employment and wages.....	3425	new books, brief reports on publications.....	6623
income tax levies, investigation, report.....	1550	news, abstracts—	
labor market and employment security.....	2504, 11035	Department of Chemical Sciences.....	8438, 10835
statistical supplement.....	2505, 11036	Department of Technical Sciences.....	7181, 10836
special issues.....	2500, 11031	geography series.....	10837
railroad act, text as amended, 1959.....	17063	geology series.....	10838
railroad employees, amend act—		geophysics series.....	10839
hearings.....	4660, 6075	mathematics series.....	10840
law.....	8513	physics series.....	8439, 10841
reports.....	5882, 7376, 7561	reports, abstracts.....	7186, 10862
views.....	5882	review of 1958 activities.....	17546
supplemental benefit trust payments, exempt from income tax, report.....	15895	acts, control in communist empire, consultation by Un-American Activities Committee with Ivan P. Bahriany.....	12317
temporary extension to workers who have exhausted benefits—		agriculture—	
hearing.....	6054	articles.....	12859
law.....	5781	aspects.....	8334
reports.....	5851, 5888, 6005	equipment for helicopters.....	7925
views.....	6005	meteorological service of collective and State farms and machine-tractor stations.....	871
veterans and Federal employees, appropriations, 1959, law.....	7301	meteorological stations chiefs, conference.....	1897
UNESCO, <i>see</i> United Nations Educational, Scientific and Cultural Organization.		plans to increase use of mineral fertilizers, etc.....	14865
Uni- and multimolecular adsorption from solution on nonporous adsorbent, USSR.....	9257	selected translations.....	12893, 12898, 16533, 17534
Uniformed services, <i>see</i> Armed Forces.		all-Union and all-Russian scientific societies of hygienists, results of joint plenary session.....	16544
Uniforms:		all-Union committee on rheumatism and diseases of joints and means of combatting them, plenary session report.....	10626
Air Force service and dress, Air Force manual.....	8348	all-Union conferences and congresses—	
Navy regulations, 1959.....	16979	anatomists, histologists, embryologists, resolution.....	12990
Union Hydrological Congress, USSR 3d session, 1957.....	1872	hydrological, session.....	1872
Union of South Africa:		hygienists, epidemiologists, and specialists in infectious disease, summary.....	616
canned deciduous fruit industry.....	17432	medical radiology, proceedings.....	10231
economy, basic data.....	1651	medical radiology, works.....	17247
exports and imports, licensing and exchange controls.....	10152	philosophical problems of natural science.....	10374
Industrial developments.....	1649	physiologists, biochemists, and pharmacologists.....	14967
Union of Soviet Socialist Republics:		problems of controlling alcoholism.....	17645
academies of science, organization, personnel, and activities.....	9199	roentgenology and radiology, summary of proceedings.....	10377
Academy of Medical Sciences—		tissue incompatibility and transplantation of organs and tissues problem.....	7910
conferences on endocrinological problems.....	815	vitamins, summary.....	6596
Department of Clinical Medicine, scientific organizational activity, 1958.....	14911		
Department of Hygiene, Microbiology, and Epidemiology, 1956-57 review of scientific-research activity of members not working in institutes of Academy.....	6401		
general law on problems of infections and epidemiologic process, etc., discussion in Presidium.....	14912		

# INDEX, 1959

Entry	Entry
Union of Soviet Socialist Republics—Continued	Union of Soviet Socialist Republics—Continued
All-Union Institute of Experimental Endocrinology proceedings of annual scientific sessions, Mar. 23-26, 1959, thesis	construction and building materials industry—
ambulatory, polyclinic, and hospital aid in urban and rural medical establishments, statistical data	abstracts-----
Anatolii Kuznetsov's experiences in Siberia	prospects for increase in production-----
antiaircraft defense—	selected translations-----
in rural localities-----	13159, 13180, 14894, 17586
local-----	construction and road machinery--
are miracles possible? study-----	6361, 14845
army and navy physicians participation in prophylaxis of infectious diseases-----	construction industry, output etc., selected translations-----
Asiatic territory, weather, general, characteristics, forecast, Apr. 1958-----	construction mechanization during postwar period-----
atheism, selected translations-----	consumer goods industries-----
10232-233, 10243, 14819, 14822, 14905, 16515, 16525-526, 16535, 17521-522, 17540	6519, 9225
atomic icebreaker Lenin, description-----	cotton production, etc-----
attitude toward China's transition from socialism to communism-----	current problems of world politics-----
aviation designers and history of design, etc-----	dissertations for degrees in science and engineering at higher educational institutions, list-----
biological pharmaceutical and medical industry-----	10384, 16545, 16634, 17574, 17649
Bol'shaya meditsinskaya entsiklopediya, excerpts-----	doctors' office hours in polyclinic, organization-----
bourgeois reformist nature of rightist socialist ideology-----	doctors, quality of training in medical schools-----
central and eastern regions of Russian platform, nature of gravitational and magnetic anomalies-----	eastern areas-----
Central Scientific Research Institute of Geodesy, Aerial surveying and cartography proceedings, excerpts-----	building materials and construction industry-----
challenge of Soviet power (address)-----	higher education, development-----
chemistry-----	economic challenge and how to meet it (address)-----
chemical engineers training improvement problems-----	economic conditions, comparison with United States, papers submitted in subcommittee study-----
industry and teaching, need for developing-----	15753, 17316
program of redeveloping general course in higher educational institutions-----	economic efficiency of using diesel motor vehicles-----
role of engineering chemistry increasing-----	economic penetration in Middle East, study-----
civilian defense, report-----	economic relations with China after formation of People's Republic-----
clinico-anatomical conferences of Moscow City Scientific Research Institute Imeni Sklifosovskiy-----	economizing copper and lead in national economy, conference on problem-----
coal industry, development, etc-----	education, report of U.S. Education Mission with analysis of reforms-----
coke-chemical industry—	electric locomotives, one kind of overhaul at terminals-----
construction of new installations-----	electric power balance problems in light of goals of long-range plan-----
plants construction-----	electrical industry, selected translations-----
steel corrosion problems in plants apparatus-----	electromedical equipment, plan to increase output-----
communications and telemechanics at Volga hydroelectric power station-----	electronic computer Pogoda-----
communications system, budget and bank financing-----	electronic machine for centralized control for manufacturing processes-----
communist espionage patterns, report-----	equipment and repair stations, financial and operational plans-----
additional copies, report-----	European territory—
Communist Party, 41 years of progress (speech)-----	occurrence of diamonds-----
communist propaganda, fact book 1957-58-----	water losses from stream run-off, snow thaw, etc-----
	weather, expected general characteristics, Apr. 1958-----
	weather forecast, Apr. 1958-----
	fallout from Oct. 1958 tests-----
	ferrous metallurgy industry, iron ore base—
	and path of its growth, 1950-65-----
	excerpts from book-----
	ferrous metallurgy, translations-----
	feudal-bey survivals and their overcoming-----
	foreign economics policies, realities (address)-----



# JANUARY-DECEMBER

	Entry
Union of Soviet Socialist Republics—Continued	
foreign trade—	
1956, statistical survey, errata—	1741
1956-57—	6233
1957, statistical survey—	4973
minerals, 1957—	2010
organization and techniques, study guide—	16561
with China, statistics, chronology and bibliography, 1618-1956—	6499
with other Socialist countries—	17541
freight-car construction, unsolved problems—	10254
gas fields, search and prospecting—	6428
gazetteer, official standard names, list—	7843, 9111-13, 10187
Geographic Society, meteorological commission of Moscow affiliate, meetings, etc—	1882
geology for 40 years—	6423
gold deposits, reducing number of chemical analyses during assaying—	10271
grasshoppers, experimental control with aerosols—	7959
handbook of construction of equipment for building hydroelectric power stations—	5020
health protection, improvement—	13245
heavy machinery, technical data—	1742
high-seas fisheries of USSR—	7751
Higher Certification Commission on Scientific Ranks and Titles (USSR), decisions—	695-697, 744-745, 1841-42
higher school system—	16504, 16507, 16531-532
hydrometeorological service—	
main administration scientific-technical council, meteorology and hydrology section meeting—	1873
operating subsections scientific seminar—	1880
organization of hydrometeorological servicing of construction of Stalingrad hydroelectric station—	1952
research institutions, works completed, 1957—	1954
industrial development—	13134, 14876
industrial geophysical work in Pechora coal basin, results—	1802
industrial hygiene—	
and occupational pathology problems for modern physician—	12972
problems in connection with 7-year plan for industrial and agricultural development, 1959-65—	12936
industrial labor productivity levels, comparison with those of principal capitalist countries—	6530
industries, radioisotopes application—	3750
information processing and machine translation developments—	9175, 9186, 10217, 12903
Institute of Infectious Diseases, scientific session, poliomyelitis—	7909
institutes for training of physicians, preparation of plans—	10358
institutes of higher learning, news-aeronautical engineering, abstracts—	10842
chemistry and chemistry technology, abstracts—	10843
geodesy and aerial photography, abstracts—	10845
mathematics, abstracts—	10846
physics, abstracts—	10844
international communist developments, selected translation—	16506

	Entry
Union of Soviet Socialist Republics—Continued	
international geology congress work program, 21st session—	13244
joint plenum of pediatricians, obstetricians, and gynecologists—	17655
labor and wages, question on, Korean periodical—	578
labor force, implications of new data—	5177
lead-zinc leaching process at U.S. Kamenogorsk combine, results of periodical processing—	1790
machine building, selected translations—	13196-197, 16560
machine tools, technical data—	3727
machine translation developments—	1740, 1743, 6400, 7889, 9175, 9186, 10217, 12903, 16505, 17559
machine translation, Russian sentence analysis—	1746
magnesium ore occurrences, uses, etc—	1789
Main Geophysical Observatory—	
conference of young specialists—	1874
results of 1957 work, summary of session of scientific council—	5136
majestic program of building communism—	12937
mathematicians, biographies—	3795
May Day, holiday of labor and peace—	14910
medical cadres problems in Kirgiziya—	17653
medical health facilities—	772, 5074
medical industry—	
developments of 40 years—	12920
in 1959-65—	10350
task—	10372
medical institutes, academic experience and methods of improving teaching of epidemiology—	17567
medical instrument industry during 40 years of Soviet rule—	1905
medical personalities, biographies—	7924
medical school, immediate tasks—	12872
medical science—	
in service of public health—	816
reorganization problems—	1923
medical service in mass attack—	70613
medical specialists, biographical sketches from Bol'shaya meditsinskaya entsiklopediya—	6455
medical techniques, 1956-65—	17572
medicine and biology, problems—	14947
medicine and public health, impressions of U.S. Public Health Mission—	8198
medicine in new stage, history—	10385
metallic minerals occurrence—	654
meteorological servicing, utilization of radar station Rupor for Civil Air Fleet—	16539
meteorology—	
attainments studied in Japan—	1898
observations on contents of synoptic manuals—	7906
Military-Medical Academy Imed S. M. Kirov, research on neurophysiology—	6618
military translations—	10238, 12845, 12858, 14813, 14820, 16534, 17547
milk production, recent developments—	9062
mine ore industry, use of automation—	656
mineral deposits and mines, economic appraisal—	7948
mission of Austrian electric power personnel to USSR—	13115
modern possibilities for preventing storms and hail—	812
moral education program studies—	7922

# INDEX, 1959

	Entry
Union of Soviet Socialist Republics—Continued	
morbidity among rural population of Kiyevskaya Oblast, Ukr SSR, experimental study.....	13238
morbidity, mortality, and physical development of populace.....	10331
Moscow public health network, prospects for 1959-65.....	10386
Moscow Scientific Society of Roentgenologists and Radiologists, radiology development.....	12940
Moscow Society of Therapists, minutes of meeting.....	6606
national economy and hygiene tasks, 7-year plan for developing.....	12952
national economy needs for physicians and chemists.....	867
new stage in building of communism and public health.....	12965
nonferrous metallurgy—	
automization.....	645
labor productivity.....	7947
selected translations.....	9202, 17617
northern, sailing directions.....	14774
note demanding abandonment of West Berlin, by United States, etc., analysis.....	2139
oil geology for 40 years.....	6424
open pit mining in lead-zinc industry.....	5144
ores, utilization.....	866
parcel operations, report.....	15972
party unity resumé.....	7896
passport visas, agreement.....	4081
periodicals—	
anerobic infections, selections.....	14937
cytology journal, articles.....	13201
medical radiology, translations.....	9165
military medical journal, articles.....	1816, 1846, 3741, 5040, 6433, 9220, 9237, 10340, 13136.
reference journals.....	14852
Soviet medicine.....	10250
pharmaceutical cadres training, status and prospects.....	17650
photographer's handbook.....	3798
piston compressor building, development.....	1751
plan fulfillment report on development of respective national economies.....	565
political and sociological items selected from Soviet journals.....	1750, 1759, 3641, 3652-53, 5012, 5017, 6369, 7890, 9182, 9192, 9195, 10248
political translations from Soviet journals.....	566
population, methodology and plans, 1959.....	7216
power systems development.....	689
precision equipment manufacture, translations.....	7888
prospective plan for development of national economy and communism.....	10362
psychology concepts.....	14836
psychology, present status.....	619
public health—	
development in Kazakh during 7-year plan for development of national economy.....	13242
development in Moldavia.....	12987
during war years.....	1941
40 years.....	14818
program, organizations, personnel, etc.....	721, 5076
rural public health, next tasks.....	12973
radio communication channels, operators post.....	14846
radioelectronics use in medicine and biology, outcomes and prospects.....	17579

	Entry
Union of Soviet Socialist Republics—Continued	
radiosonde, comb-type with electric motor, description.....	5117
railroad cars, economic problems of utilization.....	7946
railroad operations, ways of solving basic scientific problems.....	12917
report by Hyman G. Rickover, hearings.....	15938
reports of U.S. technical study group.....	8333-35, 15328
research, recently completed studies, list.....	2140
research, studies currently in progress, bibliography.....	1180, 13598
reservoirs, sanitary protection from contamination by radioactive substances.....	5102
residential dwelling hygiene problems.....	17578
review of book, public health in Turkmen SSR.....	16625
river shipping, ways and means of developing.....	9239
road-building operations, mechanization.....	14847
road-machinery building in coming years.....	12914
roentgenology and radiology, editorial from Vestnik rentgenologii i radiologii.....	10375
RTU television reporting outfit.....	9262
Russian technical journals, English abstracts available from OTS, list.....	15441
sanitary-epidemiological stations, scientific work.....	1940
sanitary living conditions in light of 7-year plan for development of national economy.....	13274
school reorganization problems.....	847
science—	
and building of communism.....	5090
and scientific institutions.....	7908
and technology report.....	554
information, accessibility to U.S. scientists.....	3977
role in building communist society.....	12978
scientific information report.....	2378, 10909
scientific personalities and organizations, directory.....	16555
scientific research—	
absorption of gases in presence of surface-active agents.....	14859
accelerometers, calibrating and checking, methods and apparatus.....	7961
acetylene synthesis, methods, etc.....	629
acoustic coagulation of aerosols and its technical application.....	3794
acoustical method for measuring air temperature.....	16624
active influence on weather.....	3718
adrenalin excreted in urine during experimental dietary hypercholesterolemia and atherosclerosis.....	6611
adsorption, by chemical faculty of Moscow State University.....	12984
adsorption of gases and vapors, role in structure of adsorbents.....	10348
adsorption of mixture of vapors on porous adsorbents.....	14921
aerial gravimetric measurements, development of apparatus for conducting research while in motion.....	6413
aerial photographs, utilization in troop units.....	5023

# JANUARY-DECEMBER

	Entry
Union of Soviet Socialist Republics—Continued	
scientific research—continued	
aerostatic computation of radiosondes, taking into account strength of balloons at low temperature	9166
air pollution in cities, control problems	7949
aircraft dropsondes	3710
alkaloid content and distribution of ergot	12935
allergy, new teaching	7953
allergy role in infection process	7954
aluminum extraction from nepheline, Lenin prize winners	1783
analgesic and parturifacient effects of promedol and isopromedol	9244
analysis of 2 cases of cyclo- and anticyclogenesis	12977
anesthesia, basic problems	14864
animal organism, distribution and role of plant growth stimulators	5125
anthrax bacilli, use of radioactive sulphur for production	14861
antibacterial properties of eucalyptus decoction	6614
antibiotics	5110, 6439, 14938
antibiotics effect on amino acid alpha-amidases and microbe acylases	16541
anticancer antibiotics	1942, 12926
antigenic properties of animal tissues, in ontogenesis, changes	12948
antigenic structure of proteins, nature of changes under effects of ionizing radiations	14940
antihistaminic and sedative preparations effect on skin reaction in local irradiation by radioactive phosphorus	6447
apparatus for diagnosis of tumors with aid of ultra-sound	10849
apparatus used in dosimetry, radiometry, electronics, counters, scintillation and photomultipliers, handbook	17515
astronomy, achievements	9200
astronomy items selected from Russian periodical	3644
atherosclerosis prevention and treatment studies	1770
atmosphere, temperature, pressure and density, new standards	1953
atmosphere, upper layer, statistical relations	1883
atmospheric circulation features in Antarctic	1943
atmospheric microflora, new device for investigating	1909
auditory sensitivity of workers in radar stations	12929
azimuthal inclinometer unit operation, first results	3694
bacterial investigations of air with Rezhemskiy-type apparatuses, practical evaluation	14948
bacterial preparations, development of production during Soviet rule	1906
bactericidal significance of solar radiation penetrating room	1904
bacterio- and actinophagia problems	13248
bacteriological culturing, new method	861
barometric field near ground, connection with distribution of heat and cold in troposphere	7904

	Entry
Union of Soviet Socialist Republics—Continued	
scientific research—continued	
basic indicators of effectiveness of high production working in certain polymetallic mines	3691
bats, morphological basis of locative and ultrasonic abilities	16618
Bering Sea biogenous elements, chemistry	14849
beryllium fluoride and fluoroberyllates	17575
beta-radiation, natural activity in human blood	13266
biochemistry of blood coagulation	3791
biochemistry of microorganisms, problems and prospects for development	12982
biological effect of ultraviolet radiation, conference	12957
biological science, new conquests	10370
biological sciences, 7 year plan and goals	14803
biologically active substances given off by insects	5126
biology, role as leading branch of natural science	4988
blood biochemical value changes due to action of X-rays	6445
blood changes in polycythemia patients treated by radioactive phosphorus	12921
blood collecting, two-stage method	610
blood, preserved, collected by 2-stage method, transfusion	611
blood reaction to repeated X-ray irradiation, investigation	821
blood substitutes, classification	6487
bloodsucking arthropoda control with new type knapsack sprayer	17642
botulism	6453
brain, effect of X-rays on post-natal development	6612
brucellosis	7944, 13461
burn therapy	17638
burns, treatment study	17644
calculation of turbulent horizontal diffusion of admixture spots in sea	5151
cancer in light of embryological data	865
candida sepsis following antibiotic therapy	10252
capture of free excitons by impurities in molecular crystals	4972
carbohydrate-phosphate metabolism in brain during hypothermia and hypoxia	6523
cardiac activity during radial acceleration	12930
cardiovascular system, changes in functional condition	9247
case-hardening, information	3699
catalysis of hydrocarbons with oxide catalysts, effect of temperature and volume on dehydrogenation of n-hexane, etc.	1910
cells, bacterial connection between biochemical processes and structural elements	16556
central nervous system, role in mechanism of anaphylaxis	5128
cerebral cortex development during intrauterine life	14950
cerebral cortex, role in spatial orientation	6415
certain problems on theory of alloying special cast high-alloy alloys	5118

# INDEX, 1959

Entry	Entry
Union of Soviet Socialist Republics—Continued	Union of Soviet Socialist Republics—Continued
scientific research—continued	scientific research—continued
change in physico-chemical properties of desoxyribonucleic acid in tissues of irradiated animals.....	contactless magnetic devices for system of control..... 13264
5104	content of corticosterone in suprarenal blood of rats at various periods after irradiation..... 3736
changes in chemical composition of testes in atrophy caused by ionizing radiation..... 12969	continuous flow ultramicroscope VDK-4..... 5101
changes in higher nervous activity after removal of adrenal medulla..... 1810	controllable infections..... 13275
changes in physico-chemical and biological properties of irradiated proteins..... 9250	conversions of C <sub>8</sub> -C <sub>9</sub> n-alkanes in presence of aluminum-chromium-potassium catalyst..... 1911
changes with altitude of yearly amplitudes of air temperatures..... 1901	cortisone effect on changes in bactericidal activity of blood and properdin system..... 6438
characterization of formation of jet stream in atmosphere under influence of mountain masses in central Asia..... 1949	cosmic rays, origin..... 10245
chemical composition of atmospheric precipitation..... 5140	critical moment in psychic development of child..... 14956
chemical means of plant protection..... 14851	crops research..... 15328
chemical protection of animals against action of X-rays..... 5103	crustal structure researches in transition region from Asiatic Continent to Pacific..... 4982
chemical research in Far Eastern waters, etc..... 16542	cryolite-alumina fusions..... 14854
chemistry developments..... 5146	crystal growth..... 12964, 16600
chemistry in atomic engineering..... 7935	crystallization in binary and ternary systems..... 13273
chemistry, new horizons for development..... 13272	cybernetics—
childbirth labor stimulation, several principal problems..... 10387	cybernetics world..... 9181
children's infectious diseases..... 5109	in neurology..... 14930
chronic gamma irradiation effect on ovaries..... 3645	in psychiatry..... 14931
civil defense against atomic, chemical, and bacteriological weapons..... 7936	principles, development, etc..... 14814
clinical electroencephalography..... 3793, 3806	use in surgery..... 12836
clinical picture of chronic effect of electromagnetic microwaves..... 3724	cyclone movements..... 1900, 1946
clinical problems of physiology and pathology of higher nervous activity..... 7956	dark adaptation information..... 17514
closing-up of cracks and equilibrium form of negative crystals..... 10346	deaf-mute children practically without hearing, methods of fixing speech habits..... 17635
coefficients of mass transformation on horizontal perforated plates at various gas speeds..... 16597	decoppering crude lead, new method..... 1800
comparative immunological characterization of NIISI polyvaccine and trivaccine..... 1878	dehydrogenation of hydrocarbons..... 3792
competition results in development and introduction of new techniques..... 5035	demyelination of central nerve fibers produced by total action of ionizing radiation on animal-organisms..... 14925
complex compound, distribution between 2 solvents..... 14954	depth psychology and psychiatry..... 16632
complexons and their use..... 17637	dermatitis due to aminazine..... 14848
complexons in casual treatment of acute Y-91 intoxication..... 14943	desorption dynamics with porons..... 9265
conditioned inhibition in primates..... 5129	desoxyribonuclease activity in urine following radiation sickness..... 14856
connection between contrasts of temperature in jet stream zone and evolution of cyclones..... 1951	determination of magnitude of evaporation of agricultural fields by heat balance method..... 6581
connection between radiation balance and total balance in observations of climate..... 1945	determination of specific surface of powder-form bodies on basis of resistance to filtration of rarefied air..... 1907
conscious control of movements in man..... 14959	determinism and teleology..... 16616
consciousness and higher nervous activity..... 7952	development and prospects of steel foundry production in heavy machine building..... 3642
constructing charts of wind fields over Caspian Sea in Baku-Apsheiron area..... 6586	development of automatic performance of mental activities..... 14961
construction-machine building, prospects for development..... 12913	development of biology, theoretical premise for raising level of medical and agricultural sciences..... 16512
	development of equipment for high-frequency electrotherapy, prospects, USSR study..... 16608
	dielectric strength of polyethylene at high frequencies..... 6494, 7932
	diencephalic mechanisms and processes of higher nervous activity..... 1773
	discrete automatic systems conference..... 7945



Union of Soviet Socialist Republics—Continued	Entry	Union of Soviet Socialist Republics—Continued	Entry
scientific research—continued		scientific research—continued	
distribution of scattering elements for propagation of radio waves over agitated sea surface	13040	encephalogram and other biological currents, use of encephalophone for auditory examination	1812
diuretics in early postnatal period	17634	equilibrium diagrams for liquid and crystalline phases, ideal types	9256
dose rate of radiation, influence on biological effect	14942	EV 80-3 electronic computer, coding operations	573
dosimetry development	12896	evaluation of approximation errors in solution of vorticity transfer equations by method of successive approximations	1793
dosimetry in irradiation of human head by gamma rays	6441	excavator and self-propelled cranes, lines of development in production	12912
dosimetry in radiation therapy	14863	excitonic state of molecular crystal containing different molecules	4971
drilling of boreholes with small diameter bits, experimental results of work	6582	excretion of radioactive isotopes, effect of complex-formers	5106
drug therapy of malignant tumors, problems	14939	experimental anthrax infection in irradiated animals	17568
dynamics of higher nervous activity in man as reflected in alpha rhythm reactions	1772	experimental diphtheria	6490
early changes in bone marrow of irradiated animals	16593	extraction of gold from cyanide solutions by ion-exchange resins	17587
earth, new methods of studying shape	637	extrapolational reflexes, significance in animals	6603
effect of—		filtrable forms of bacteria in air-flexor reflex of shln in rabbits following general irradiation with 10 R dose of X-rays	7940
adrenocorticotrophic hormone and cortisone on nervous processes of a cerebral cortex	6610	fog diagnosis and forecast	5134
blood, storage, preservation medium, and duration on survival rate of erythrocytes and length of time they circulate in organism of recipient	1915	food ration standardization by season and climatic zone	12959
gradual intensification of inhibitory stimulus on positively conditioned reflexes	1896	forecast of non-zonal shift in lower and middle troposphere	10332
products of uranium fission on development of progeny of dogs	10356	formation of free radicals and atoms during radiolysis of hydrocarbons at temperature of 77° K	3726
radioactive isotopes on luminescence of blood and bone marrow	10376	formation of space perception and spatial concepts in children	14962
radioactive phosphorus on cardiovascular system	10253	frost structures in Quaternary deposits	10265
radioactive strontium on organism	1933	frozen ground science or geocryology	17636
ultrasound on diffusion processes in steels and alloys at elevated temperatures	1925	functional condition of cerebral cortex under conditions of protein sensitization	6491
ultrasound upon phenomenon of orthotropism in organic substances	12962	functional condition of liver from contact with radioactive substances	824
vibration on metabolism of certain vitamins in human body	14916	fungi, chemical activity and tasks of utilizing them in national economy	12983
X-rays on iron in bone marrow	12968	genetics—	
electric geophysical exploration methods of pure anomaly	3693	methodological problems	16615
electric prospecting by telluric currents method	7918	of microorganisms and present day views on heredity	16617
electroencephalography, temporary association with dampening of orientation reflex in man	3803	philosophical problems	16617
electromagnetic oscillographs used in aeronautical engineering	7894	geochemistry, problems and plans	10365
electromagnetic wave propagation in tapered, bent and loaded waveguides	17581	geodesy and cartography development under 40 years of socialism	636
electron paramagnetic resonance spectra of Cr-aromatic compounds with various substitutes	3725	geodetic instrument building	639
electronic instruments	3797	geological problems of petrology	6425
electrophoresis	13241	geological prospecting and exploration surveys of oil and gas, 1959-65	6427
electro-sleep therapy of arterial hypertension	14875	geophysical methods of prospecting and exploration	1903
embryology, 40 years	14949	gravimetry values at sea, observations for correcting	3690
encephalitis vaccine	5100	gravity at sea, string gravimeter for measurement	12934
		gravity determination at sea by gravimeter	5137
		health problems connected with work in atomic power plants	13156

# INDEX, 1959

Entry	Entry
Union of Soviet Socialist Republics—Continued	Union of Soviet Socialist Republics—Continued
scientific research—continued	scientific research—continued
heart changes in internal irradiation by radioactive phosphorus.....	intero- and exteroceptive conditioned reflexes, formation in various stages of ontogenesis.....
heat regime of warm soils, computation of elements.....	interceptors role in formation of behavior in higher animals.....
helomycin, new antiviral antibiotic.....	intestinal infections, Astrakhan session of Academy of Medical Sciences on problem.....
hemoglobin and reversible addition of oxygen.....	intratracheal introduction of dust into animals.....
hemorrhagic fevers.....	ion-exchange materials, theory and practice of application.....
high-frequency tonometer for measuring intraocular pressure.....	ionic mechanisms of basic nerve processes.....
high-temperature materials, conference.....	ionizing radiation—
high-temperature metallurgy, translations.....	action on organism.....
histochemistry of brain phosphatase in rabbits during ontogenesis.....	after effect on vitamin C and carotene content of certain preparations and food-stuffs.....
horizontal velocity divergence in atmosphere.....	ecological study.....
human heredity, problems, study.....	effect on animal organism.....
hydrodynamic interaction between small cloud drops, effect upon their falling speed.....	effect on blood picture in relation to occupational harmfulness.....
hydrodynamic methods of long-range forecasting.....	effect on bone regeneration, biological.....
hydrometeorological service institutions, works completed, 1957.....	effect on descendants.....
hygienic evaluation of vibration factor of helicopter MI-4.....	effect on immunity.....
hygienic problems in radiology—hypertension—	effect on nervous system.....
at young age.....	6457, 10383, 12986, 14965
etiology and pathogenesis.....	functional changes in higher nervous activity of dogs during long-term exposure to small doses.....
stable, of neurogenic nature, producing.....	genetic effects of small doses.....
IGY studies on sodial light.....	protective effect of hormones.....
immunobiological reactivity of irradiated organism.....	irradiation of personnel during diagnostic procedures.....
immunological effectiveness of live vaccines upon combination with NIISI polyvaccine.....	Japanese Sea tectonic relief.....
immunology in problem of live vaccines.....	jet streams.....
immunology of embryogenesis.....	kinetics of crystallization processes of solutions and melts.....
individual protection during work with uncovered radioactive substances.....	Krasnogvardeysk plant.....
industrial hygiene in 1959-65, USSR.....	large-panel houses, vibration and noise characteristics.....
industrial wastes of chlortetracycline, use for livestock raising needs.....	leaching of alumina from nephelines by alkaline solutions with lime.....
infectious disease control.....	leaching of zinc from fuming sublimate.....
infectious disease eradication.....	lead sulfide concentration in air hygienic basis for protection.....
influence of atomic explosions on atmosphere.....	live vaccine.....
influence of porous structures of adsorbents on form of adsorption isotherms of vapors.....	live vaccine in poliomyelitis.....
influenza, specific prophylaxis and treatment.....	long range Arctic weather prognoses, method of compilation.....
inhibitory influences on cardiovascular activity in animals during ontogenetic development.....	luminescence of DNA isolated from tissues of irradiated animals.....
ink blot method in determining characteristics of signal systems in persons of different temperament.....	luminescent microscopy of—
installation for heating PBK-50 pressure chamber.....	blood in X-ray irradiation.....
installation for irradiation of animals by neutron fluxes.....	bone marrow.....
intensification of working aluminum electrolysis units.....	magnetic disturbances and auro- rac, planetary distribution.....
internal medicine problems, prospective plan for solution.....	magnetic field of Earth.....
international relations in field of geology.....	magnetic properties of rocks, measuring with astatic magnetometer.....
	magnetization of rocks, use of magnetic field measurements in prospecting holes to determine intensity.....
	magnetograph with visible recording, description.....
	man-made earth satellite.....
	man on wings.....
	marine geology.....
	Mars observations during 1956.....
	masking method in 4-color offset reproductions, use and effectiveness.....

Union of Soviet Socialist Republics—Continued	Entry
scientific research—continued	
material on combined inoculations and prospects of their future use	1956
materialist theory of reflection and theory of development in living matter	16609
materialistic basis of heredity, philosophical problems in theory	16603
means of detecting viruses by use of non-microbial absorbents	3753
measuring low velocities of water current	6588
measuring 2d derivatives of magnetic potential of bodies, experiment	6583
mechanisms in formation of anomalous mixed crystals	10345
mechanisms of consciousness, role of reticular formation of brain stem	1813
mechanisms of physiologicomorphological evolution of central nervous system in vertebrates	17632
medical chemistry, next tasks	12860
medical entomology, achievements, 1917-57	16510
medical first aid methods in focus of atomic contamination	7960
medical problems, 1959-65	6620
medical radiology	814
medical radiology and hygienic problems	12988
medical science—	
prospect for development, 1959-65	9228
tasks in future 7-year plan	12894
meridional meteorological profiles	7903
metal losses with slags of shaft lead smelting	1795
meteorological factors, effects on organism and criticism of them	9245
meteorological regime of Antarctic oases and their effect on surrounding ice surface	1887
meteorology	14850
meteorology and hydrology	1884,
1948, 6465, 6575, 7907,	14843
meteorology, principles of dynamic factors	1796
method of selecting dust samples from air	6599
methodology of preparing filters from gelatin foam suitable for bacteriological studies of air	5038
microbiology in fermentation industry	13246
microbiology, plans for uses	13247
microflora of air in lying-in hospital, detection with aerocentrifuge	5037
monodisperse fog particles, methods of measuring size with radius of 0.1-0.5 microns	5131
moon observations, contribution to geodesy	640
morphological changes due to effect of changes in atmospheric pressure under experimental conditions	12945
morphological changes in peripheral nervous system of animals after acute radiation sickness	14857
morphological characteristics of vaccinal process in brucellosis	6416

Union of Soviet Socialist Republics—Continued	Entry
scientific research—continued	
morphological, in view of 21st CPSU congress	12989
morphological structure of interoceptive analyzer and peculiarities of its work	14913
morphologico-physiological analysis of compensatory mechanisms of sensory-motor functions following injury to spinal cord	3687
morphology problems	16606
Moscow University, physics, chemistry, geology, and geography during postwar period	6624
multimolecular adsorption theory	12925
nature of hydrochloric acid solution of pentavalent niobium	17626
nature of individual consciousness of man as highest degree of mental development	14933
neuritis of femoral nerve	6577
neurophysiology success in analysis of problems of higher nervous activity	14874
new drugs for treatment of diseases of central nervous system	10334
new drugs, reserpine and cortisone acetate	12932
new fabric for covering wet rollers of offset printing machines	6616
new therapeutic preparations synthesized in Academy of Sciences Latvian SSR	6579
nitrogen metabolism chemical integration processes	17651
nomogram for determining divergence and vortex	844
nonferrous deposits and processes	12940
nonlinearity of GAK-3 gravimeter scale	1804
norvembicine effect on course of Arthus-Sakharov phenomenon and development of anaphylactic shock	6493
nucleic acids—	
content and synthesis in liver during subacute plutonium intoxication	6592
role in heredity and variability of microorganisms	6485
nutrition hygiene plans	13249
Obi River Valley, engineering geological characteristics	6417
occupational diseases—	
effect of radioactive substances and radiation	12950
nervous system in foundry cleaners, data on clinical symptoms, pathogenesis, and prevention	12954
roentgenologists and radiologists	12939
oceanographic research	16580
offset plates, procedure for checking wear resistance surface of patterns	7943
ontogenetic changes in reflex regulation of renal function	16628
organisms from view of physics, cybernetics, and biology	6470
orienting reaction and conditioned food reflexes to light in prematurely born children	1895
ornithosis-psittacosis virus, resistance to physicochemical agents	16601
orographic cyclone genesis	5116

# INDEX, 1959

Entry	Entry
Union of Soviet Socialist Republics—Continued	Union of Soviet Socialist Republics—Continued
scientific research—continued	scientific research—continued
oscillations in atmosphere and adaptations of meteorological fields.....	problems of industrial hygiene in work with high-frequency currents.....
3801	5024
oxygen therapy—	prognosis of trajectories of air particles.....
atherosclerosis patients.....	1902
effect on circulation in patients with hypertension.....	pronunciation mastery by children during 2d and 3d year.....
6604	16592
6605	propagation of radio waves, use of radar method in determining distribution functions of scatterers on agitated sea surface.....
10360	10330
paramagnetic resonance, discovery and applications.....	propagation of ultrashort waves in mountainous locality.....
paramagnetic resonance in biology, etc.....	9223
3660	properdin isolation and its chemical composition.....
pathological anatomy diagnosis on death of animals under 25-Mev betatron ray.....	16594
10355	prospecting features of buried structures.....
14929	6430
peculiarities in therapy of infectious inflammations with antibiotics.....	10251
10251	protective coatings of heat resistant alloys.....
pediatric science, role in reduction of childhood morbidity and mortality.....	1928
14928	protein composition of kidneys, blood, etc., following damage caused by heavy salts.....
634	6594
3682	protein serum, restoration in irradiated dogs after hemorrhage.....
peripheral blood changes in pregnant animals after single irradiation by X-rays.....	6591
822	14932
pharmacy status and prospects for developments.....	1763
16627	radiation effect on development of fetus.....
phasic states of excitability of cerebral cortex as related to individual psychological characteristics of students.....	14918
14935	6431
phenegan and aminazine employment in acute radiation sickness.....	external integument, use of fibrin films.....
14923	10354
photo and movie optics, status and immediate prospects for its development.....	14920
818	influence of nutrition on course.....
physico chemical properties of aluminum bath electrolyte containing magnesium fluoride.....	3719
1745	of skin, complex method of treating.....
12835	14919
799	radiation microbiology, tasks in connection with plan for development of national economy, 1959-65.....
5145	10388
1769	radiation sickness—
physiological reactions of man during radial acceleration.....	aminazine, prophylactic effect.....
13258	13258
placental blood use for purpose of prophylaxis of blood loss in post-partum and early post-partum periods.....	animals damaged by irradiation, reaction to general cooling.....
6609	10379
1957	6503
plague in camels, pathological anatomy.....	articles.....
10631	burn shock course during initial phases.....
plankton as indicator of pollution of fresh water reservoirs by radioactive substances.....	6520
1868	change of tissue autolysis.....
1926	13260
3661	changes in heart sensitivity to glucosides.....
potential of deformation forces and its variation with rotation regime variation of ellipsoid.....	1866
10263	changes in morphology of blood.....
7939	1865
12918	changes in nervous system of dogs caused by intravenous administration of radioactive strontium.....
1871	14926
10371	chemotherapy in monkeys under experimental conditions.....
12928	19267
problem of utilizing fibrin films after irradiation of skin surface.....	colloidal infusion use in combined therapy.....
1867	3735
	complex therapy during blood losses.....
	14862
	course of wounds in small intestines.....
	3679
	1932
	development of acute form.....
	early changes in dogs' skeletons following radioactive strontium and yttrium irradiation.....
	14924
	effect of neurotropic substances on regeneration of bone tissue.....
	10382
	effect of pentoxyl on leukopoiesis in radiation leukopenia.....
	10380
	general principles in treatment of combined affections.....
	10367



	Entry
Union of Soviet Socialist Republics—Continued	
scientific research—continued	
radiation sickness—continued	
healing fractures during various stages	1768
hemotherapy efficacy	10368
hypophyseal-suprarenal system	6619
immunological and microbiological methods for study of body's reactivity	13257
intrauterinely-irradiated fetus, prophylaxis	10353
irradiation of animals, methodology of studying role of physical stress	16596
leukoses as remote sequence	6486
parenteral protein feeding	14917
pathological anatomy	10274
problem of metabolism of vitamin C and aromatic amino acids	6593
protective action of certain pharmacological agents	1922
roentgen kymography of heart-somatotropic hormone, prophylactic and therapeutic action	825
stimulation of hematopoiesis disease	3737
surgical treatment of wounds of soft tissues	624
temperature effect on course, therapeutic action of strychnine	6521
therapy with homoplastic transplantation of spleen	6440
treatment by drip blood transfusions	10381
working classification	14927
radioactive potassium content in urban sewage	826
radiobiology	13261
radiobiology and physics of penetrating radiations	724, 6442-43
radioisotopes use	10359, 13262
radiology	7942
radiosensitivity of cell organelles	7934
radiosonde, A-22-III, basic features	6595
radiosonde temperature data used for hydrological computations and forecasts	3709
radiostrontium problem conference	6587
reaction mechanism of flotation reagents with surface of minerals through use of radioactive isotopes	13263
reaction to water excess and deficiency in postnatal period	1744
reactivity, nature and classification	17633
recording meteor activity, system of protection from pulse noise in apparatus	14936
relationship between illumination of auroras and radar reflections from them	5139
repetition in process of development	1764
reports presented at 5th meeting of Special Committee for International Geophysical Year	16614
resorption of sodium-24 from intradermal skin depot in rheumatism	551
ricketsial diseases	7941
rocket measurements of electron in ionosphere with aid of ultrashort wave dispersion interferometer	6393
roentgen and gamma rays, protection against	10259
	13127

	Entry
Union of Soviet Socialist Republics—Continued	
scientific research—continued	
role of cerebellum in development of functions of skeletal muscles in ontogenesis	16622
rolled stock production of steel, development	12908
safety technology, and labor protection in work with radioactive isotopes	3646
salivary glands, activity in dogs after massive single X-ray irradiation in area of abdomen	823
sanitary bacteriology	7962
sanitary-epidemiological matters	14853
sanitary, hygienic, and technical requirements in planning and equipping laboratories for radioactive substances	13268
sarcoma changes during treatment with sarcosyl and dopan	1880
satellites, lunar probes and space probes, 1957-59, statistics	9388, 16931
settling of particles from aerosol stream on obstacle	3697
shifting of null point of SN-3 gravimeter as result of inclination	3689
shock waves	9231
short range forecasting using high-speed computers	3648
signs of certain functional deviations found in workers of roentgen institutions	10369
Sino-Soviet cooperation in medical science	6488
small doses of radioactive phosphorus effect on nitrogen metabolism, hemopoiesis, and function of cardiovascular system	6446
solanine poisoning	6578
some problems in application of information theory to psychology	5018
sorption dynamics of 2 components of a mixture	9255
space research, translations	17619
speech role in child development	14966
spinal reflex arcs, rate of maturing in rabbits	14952
splanchnic nerve influences on secretory functions of adrenal glands in newborn animals	16619
spontaneous formation of centers of crystallization in undercooled melt in ultrasonic field	16611
Sr, Ca, Ru, Fe isotopes penetration through placental and mammary barriers	14941
staphylococcus toxin, diffusional precipitation	5099
statistical methods for studying national economy, 9235, 9242	10337
steel metallurgy quality	12907
structural creep theory	1924
structure and properties of cell nucleus, recent data	14951
structure of living and survived neurons and interneuronal connections	17657
superhigh frequency electronics	9233
supersonic vibrations, effect on crystallization process	10363
suprarenals in maintenance of blood protein and antibodies	6489
tank company in attack	16630
teaching of medical microbiology to bring closer to requirements of life	17566

# INDEX, 1959

Union of Soviet Socialist Republics—Continued	Entry	Union of Soviet Socialist Republics—Continued	Entry
scientific research—continued		scientific research—continued	
technology of metals and aviation materials.....	9254	use of ultrasound in aerosol therapy.....	10352
tectonics and oil and gas possibilities of North Caspian depression.....	7917	vaccinal process in associated immunization.....	12941
tectonophysical investigations, results and prospects.....	3802	vaccination against polliomyelitis.....	5149
tectonophysics, new prospective branch of geology.....	9201	vasomotor influences from cephalic portion of vagosympathetic trunk severed in neck region in newborn animals.....	16620
telecommunications research and development.....	1856	veterinary science.....	15329
telemechanics.....	14945	vibration spectra of diphenyl and decadentery-diphenyl.....	16540
temperatures in soil, scheme of calculating according to given weather forecast.....	5124	viral hemorrhagic fevers.....	6394
thermal electric power, development prospects.....	12873	vitamin B <sub>1</sub> and C requirements during participation in sports.....	12958
thermal separation of gas mixtures by adsorption method.....	13276	vitamin B-complex effect on resistance of organism to radiation action.....	9248
thermal vertical currents.....	1950	vitamin P effect on endurance of animals in rarified atmosphere.....	7933
thermocolors (hot press inks) for intaglio printing.....	6617	vortices in atmosphere conditions in formation, qualitative analysis.....	7905
thermocolors, improving fixation on impressions.....	6615	water reservoirs, effect of radioactive strontium on self-purification process, data.....	827
thermonuclear explosions effect on aquatic organisms.....	12933	weather forecasting for 3 to 7 days.....	16581
thermophoresis in aerosol flow.....	5111	wind change with altitude over eastern Atlantic shores.....	5115
thickening screen lines in offset printing of maps.....	3712	wind velocity measurements with automatic recorder M-12, accuracy studies.....	1870
thyrotoxicosis, effect of conditionally low doses of X-rays on penetrability of capillary walls.....	6613	work of institutions of Academy of Medical Sciences.....	14915
tissue culture study.....	13250	working conditions in roentgenological and radiological rooms.....	12922
tissue evolution, etc.....	16602	X-ray irradiation—	
titanium production by electrolysis of molten media using soluble anodes.....	17639	changes in peripheral blood and bone marrow.....	13251
topography of proteins in central nervous system.....	14922	influence on glucose and lactic acid in blood flowing into and out of brain.....	13259
total exclusion of visual, auditory, vestibular and olfactory receptors, method.....	1771	zonal circulation of atmosphere, preliminary characteristics.....	1939
toxic agents detect formation during radiation sterilization.....	6524	Scientific Research Sanitary Hygienic Institute in Leningrad, organization, role of G. V. Khlopov.....	7963
toxicity dependence of certain organophosphorous insecticides on their chemical structure.....	9246	scientists—	
toxicology of radioactive ruthenium following administration through gastrointestinal tract.....	5105	and engineers, biographic information.....	17624
transfer of angular momentum in atmosphere.....	6601	biographies.....	868, 1935, 7930
transplantation of endocrine glands.....	3738	concern over dangers of nuclear weapon tests, articles.....	7914
traveling wave antenna.....	5108, 17562	selected scientific and technical reports.....	17528
treatment of localized frostbites by means of perforated fibrin films.....	17643	selections from oil industry of Rumania and economic problems of its development under conditions of people's democratic system.....	17606
tropopause altitude nonperiodic oscillations under synoptic processes.....	7902	selections from protecting populace from modern means of attack.....	17648
tsunami and observations of super long range propagation of sound in ocean.....	5152	sending gift packages to.....	17441
tularemia pathogen in old and new world.....	17647	seven year aims of 21st CPSU congress.....	14934
tularemia vaccine-prophylaxis studies.....	9251	shifts in mortality rate compared with capitalist countries.....	12956
typological characteristics of nervous system in children.....	14960	short-range weather forecasts, handbook.....	870
uni- and multimolecular adsorption from solution on nonporous adsorbent.....	9257	showers and steady rainfall, distribution.....	1888
use of electronic computers in medicine.....	17571	Sino-Soviet economic threat to newly developed free nations.....	6946
use of roentgen units and ultrasonic defectoscope in sanitary evaluation of food products.....	3721	small-scale maps, accuracy in cartographic production.....	3713
		socialist democracy and freedom of personality.....	12834
		soil and water use.....	8335

# JANUARY-DECEMBER

Union of Soviet Socialist Republics—Continued	Entry	Union of Soviet Socialist Republics—Continued	Entry
some problems in reform of higher medical education, studies.....	17563, 17565	CPSU seven year plan.....	16629
Soviet abstracts.....	662-663, 708-711, 717-720, 722-723, 735-743, 756-762, 765-771, 773-776, 781-792, 1817-18, 1820, 1823, 1825-30, 1839-40, 1847-54, 1857-61, 3728-33, 3739-40, 3743-49, 3751-52, 3754-56, 5031-34, 5039, 5041, 5044-47, 5055, 5060-61, 5068, 5072, 5075, 5077-79, 5081-82, 5085, 5087, 5091-94, 6462-64, 6466, 6468-69, 6476, 6478-81, 6511, 6513-18, 6522, 6525-29, 6531-33, 6539-52, 6558, 6564-67, 6569, 6571-73, 10275-276, 10279-282, 10286, 10289-291, 10296-298, 10301-304, 10307, 10310-321, 10323-325, 12998, 13001, 13005-12, 13016-19, 13022-24, 13031-36, 13038, 13041, 13043-45, 13049-58, 13062-63, 13065-68, 13070-79, 13082-93, 13095-96, 13098, 13103-104, 13106-109, 13116-120, 13130-133, 13136, 13137-139, 13141, 13145-153, 13158, 13162-165, 13170-171, 13173-174, 13181, 13186-188, 13192-195, 13198, 13204-209, 13213-216, 13218, 13222-225, 13230, 13232-235, 14868, 14870-873, 14880-882, 14890-892, 14898-899, 14902, 14906, 14909, 16562, 16565, 16567-668, 16372, 16382, 16584-585, 16587, 16589-591, 17580, 17588, 17593-596, 17598-601, 17603, 17612, 17615-616, 17620, 17623, 17625, 17627-628, 17630.		
Soviet higher and local party organs.....	17550	21st congress of CPSU—	
Soviet launching of moon rocket Mehta or Lunik, report.....	15863	medical science, urgent tasks.....	17652
Soviet world outlook, handbook of communist statements.....	17087	medical workers militant task fulfillment.....	10306
statistical handbook of USSR.....	17569	pathological physiology tasks.....	10378
steel production.....	14844	resolutions.....	10361
stereophotogrammetric instrument building.....	638	Soviet public health.....	10373
Sternberg Astronomical Institute fundamental gravimetric station.....	1808	United States exchange programs.....	16203
structures of ore fields and deposits, results of study.....	6426	University of Leningrad, outline of activities.....	14964
subterranean waters and engineering geology of eastern Siberia, conference.....	6602	use of aluminum welded structures.....	643
surgical services, achievements and tasks.....	16633	use of charging gadget for pocket dosimeters.....	1931
survey of comparative economics of smelting open-hearth and electric-furnace steel in foundry production.....	3686	use of foreign trade as political weapon (address).....	5766
symbols, etc., for new semiconductor devices.....	9263	use of impregnated alginin paper for purifying ventilating air from viruses.....	1908
Tashkent Astronomical Observatory.....	13271	use of radar for ground troops.....	1937
technical journals, English abstracts available from OTS, list.....	9684	utilization of solar energy.....	15455
telemechanical devices, principal problems of theory.....	794	Vesna-radio-relay system of communications with automatic intermediate stations.....	12923
territorial-administrative changes.....	12878, 17523	veterinary medicine (talk).....	9586
trade relations with U.S., Department of State replies to, documents.....	12537	veterinary medicine, note on people and institutions.....	17573
trade with U.S. (address).....	7267	views on microorganisms in service of imperialism.....	7957
training of specialists in peaceful utilization of nuclear power.....	5121	visit of Vice-President Nixon, July, Aug. 1959.....	17089
		weather forecasts for seas, Apr. 1958.....	1919
		weather reports by radio from Antarctic.....	13270
		wide-band shunt fed tower antenna, description.....	820
		see also Soviet bloc.	
		Union Pacific RR, accident.....	14790
		Union shops and hiring halls (address).....	8108
		Union Township of LaPorte County, Ind.: school heating plant installation, credit cost against rental of Kingsbury Ordnance Plant—law report.....	17313, 16187
		Union wages, see Wages.	
		Unions, see Credit unions—Labor unions—also names of unions.	
		Unit heaters, facts for industry.....	2372, 5691, 10903
		United Arab Republic: economic developments in—	
		Egypt, 1958.....	7782
		Syria, 1958.....	7796
		foreign trade, Egyptian region, 1956-57.....	6232
		money orders, agreement.....	17110
		patent and trademark regulations of Egypt.....	9081
		surplus agricultural commodities agreement.....	4092, 9524, 17114
		United Brotherhood of Carpenters and Joiners of America, labor-management relations, improper activities investigation, hearings.....	4743, 8892
		United Kingdom of Great Britain and Northern Ireland, see Great Britain.	
		United Nations: communist China representation, opposition of Congress—report.....	14223
		views.....	14228
		documents and reports dealing with Hungarian revolt.....	6072
		meeting place of nations.....	15200

# INDEX, 1959

	Entry		Entry
United Nations—Continued		United States Education Mission to U.S.S.R., report with analysis of educational reforms	14590
observations, report of members of U.S. delegation to 13th General Assembly	7500	United States Educational Foundation in Finland, agreement	13623
United States participation, report—		United States Educational Foundation in Iceland, agreement	5428
departmental edition	15198	United States Educational Foundation in India, agreement	17872
document edition	14108	United States Educational Foundation in Philippines, agreement	4085
you and United Nations, 1959-60, questions and answers	15199	United States Government publications, <i>see</i> Government publications	
United Nations Educational, Scientific and Cultural Organization:		United States Information Agency: appropriations, 1960—	
basic documents	6951	hearings	7452
newsletter	2956, 11504	law	11971
organization and program	17093	reports	8640, 9998, 12130
papers relating to discussions, etc.	2958, 11506	budget, 1960, amendment	5815
United States delegation informal report, general conference, Paris, Nov. 5-Dec. 5, 1958	13609	field staff, foreign service list	2950, 11497
United States National Commission, 7th conference, advance program	13595	magazine reprint, articles	2979, 11528
United Nations International Conference on Peaceful Uses of Atomic Energy, 1958:		operations of radio broadcasting center at Munich, Germany, report	16189
highlights	4336	operations, review, hearings	3323
papers	3171	overseas film program	13653
report by U.S. delegation	11758	report, semiannual	6988, 15233
United Spanish War Veterans, Inc.: convention 1957, proceedings	5791	review of operations—	
convention 1958, proceedings	5804	July 1-Dec. 1, 1958	6989
property in D.C., exempt from taxation	12407, 13970, 14133	Jan. 1-June 30, 1959	15234
United States:		survey of operations in western Europe, report	16189
NOTE.—for all subjects, pertaining to the United States, except its government, general history, and description, <i>see</i> such subjects.		United States National Commission for UNESCO:	
America Illustrated (periodical, in Polish)	6987, 11525	conference, Sept. 29-Oct. 2, 1959, advance program	13595
America Illustrated (periodical, in Russian)	2977, 11526	newsletter	2956, 11504
Constitution and Government, Federal textbook	6315	papers relating to discussions, etc.	2958, 11506
geographic names, decisions	10186	United States Operations Mission to Vietnam, report, 1958	12788
Government, Federal-State-local relations, hearings	3325-27	United States Public Health Mission to Union of Soviet Socialist Republics, report	8198
Government participation in international conferences	9506	United States reports, <i>see</i> Supreme Court	
history, publications, price list	5377	United States Study Commission on Development of Rivers, Ports, and Drainage Basins of Alaska, and intervening areas, establishment, report	16165
state of the Union address by President Eisenhower	1518	United States Study Commission on Neches, Trinity, Brazos, Colorado, Guadalupe, San Antonio, Nueces, and San Jacinto River Basins, and intervening areas: membership increase—	
statistical abstract, 1959—		law	14077
departmental edition	11813	reports	7581, 14260
document edition	12041	United States Territorial Expansion Memorial Commission, appropriations, 1960, report	8713
United States and European Common Market	17853	Universal military training and service act, <i>see</i> Military service	
United States and new Africa (address)	6952	Universal Postal Union, convention, final protocol, etc.	17098
United States coast pilot, <i>see</i> Coast pilots		Universal Trades, Inc., relief	8556
United States Code, <i>see</i> Codes of law		Universities, <i>see</i> Colleges and universities	
United States commissioners:		Unknown Americans, World War II and Korea, word-and-picture-stories	7133
Grand Canyon National Park, appointment—		Unloading and lading:	
law	14091	apples, in fiberboard boxes for truck shipments	9574
reports	7579, 14297	carlot and truck unloads of fruits and vegetables, U.S. and Canadian cities, 1958	4136
retirement, crediting service—		shipboard cranes and burtoning gear, evaluation of cargo handling	5183
hearing	9919	Upham, N. Dak., reimbursement of Meadow School District no. 29, report	16042
law	15671		
reports	12185, 14525		
United States Court of Military Appeals, <i>see</i> Court of Military Appeals			
United States Courts, <i>see</i> Courts of United States			
United States Courts, Administrative Office of, <i>see</i> Administrative Office of United States Courts			



# JANUARY-DECEMBER

	Entry		Entry
Upland cotton, <i>see</i> Cotton.		Uranium—Continued	
Upper air, <i>see</i> Atmosphere.		raw materials availability, current and long term, for atomic energy development	15430
Upper atmosphere, <i>see</i> Atmosphere.		reconnaissance—	
Upper Peninsula of Michigan, <i>see</i> Michigan.		airborne project, Ruby Range and Sweetwater Basin, Mont.	15415
Upper wind distribution statistical parameter estimates	4124	Black Mountain-Yale Point area, Black Mesa, Navajo Indian Reservation, Ariz.	9662
URA, <i>see</i> Urban Renewal Administration.		metal-mining districts of San Juan Mountains, Colo.	3596
Uranium:		Saratoga area, Carbon County, Wyo.	3594
AEC's procurement, domestic and foreign (remarks)	7157	resources, Cedar Mountain area, Utah	16467
airborne radiometric reconnaissance, Wind River Basin, Wyo.	5647	tungsten carbide-uranium compacts of high density and high hardness, preparation	1140
alloys and compounds, 1936-58, catalog of technical reports	5663	uranium-bearing marine black shales in U.S., geology and occurrence, bibliography	510
alloys, uranium-platinum system	184	uranium-bearing shales, mineralogy, petrography, analyses	4320
aluminum, diffusional bonding, progress report	15417	Uranium dioxide, fuel materials with improved thermal conductivity	11736
bibliography, Geological Survey reports	17490	Uranium isotopes:	
Chattanooga shale of Tennessee as source	17258	U-235—	
chemistry, collected papers	9668	absolute neutron fission cross section determination	15400
coextruded Zircaloy-clad fuel elements with integral end seals, development and properties	15410	enriched materials, shipment, guide	11748
compounds, colorimetric determination of traces of bromine	183	enrichment by gas centrifugation	13792
content of Sharon Springs member of Pierre shale	4922, 10190	U-238, neutron resonances, thesis	15399
contributions to geology of uranium (series)	3594-96, 3600, 4922, 7846, 9117, 10189-190, 12763, 14747, 16457, 16467, 17490.	Uranium oxides:	
deposits—		resume of data	5651
Boulder batholith, Mont., mineralogy report	8400	thoria-uranium pellet preparation	17259
Dripping Spring quartzite, Gila County, Ariz.	7846	Uranium-platinum system	184
Phillips mine-Camp Smith area, Putnam and Westchester Counties, N.Y.	9117	Uravan, Colo., geophysical investigations of area	7854
Triassic rocks, Colorado Plateau region, report	12763	Urban Advisory Council, create, hearings	14561
uraniferous bog, Pettit Ranch, Kern County, Calif.	15416	Urban Affairs Department, create, hearings	12289
distribution in aluminum-clad fuel plates, determination by X-ray densitometry	5648	Urban area, <i>see</i> Cities and towns.	
domestic industry (remarks)	4338	Urban renewal, <i>see</i> Redevelopment (city planning, etc.).	
enriched scrap recovery, conference	11730	Urban Renewal Administration:	
exploration, directional resistivity measurements on Colorado Plateau	16463	news releases	11533
fission products, effect on development of progeny of dogs, USSR study	10356	report of operations	6994
geochemistry in phosphorites and black shales of Phosphoria formation	16465	Urbaniculture Department, establish, hearings	14561
geology, selected bibliographies (series)	510	Urethanes, chemistry of cross-linking of polyurethanes	4278
health and safety considerations for fuel fabrication facilities	176	Urinary organs:	
health experience and practices in industry, symposium	17251	malignant neoplasm, death rates by age, color and sex, 1949-51	6818
in apatite and phosphorite, geochemistry	518	tumors of bladder	6917
in ores, radiometric analysis	1392	Urine:	
low-grade ores, physical beneficiation	7150	chemical methods for routine bioassay	7142
metallic, nuclear fuels derived from, contribution to study	11718	desoxyribonuclease activity following radiation sickness, USSR study	14856
mineralogy, systematic study	3599	excretion, content of adrenalin during experimental dietary hypercholesteremia and atherosclerosis, USSR study	6611
minerals yearbook chapter	15043	protein composition following damage caused by heavy salts, USSR studies	6594
Mines Bureau research outline	13325	Uruguay:	
natural disequilibrium in series	4927	George Washington statue for presentation—	
production, consumption, etc.	2009	law	15710
prospecting, radiometric methods	13794	reports	15874, 16168
quality of metals, rating by microscopie stringer counts	7148	living conditions	469
		surplus agricultural commodities, agreement	8238, 13620
		wool top countervailing duty, hearing	4739
		Urundi, <i>see</i> Ruanda-Urundi.	

# INDEX, 1959

	Entry		Entry
US/UK Graphite Conference, held at St. Giles Court, London, Dec. 16-18, 1957-----	5650	Vaccine—Continued	
USAFI, see Armed Forces Institute.		live—	
USDA, see Agriculture Department.		bacterial, USSR studies-----	9204
USER, see Employment service.		immunization effectiveness of smallpox vaccine with brucellosis and NIISI polyvaccine, USSR study-----	14860
USIA, see United States Information Agency.		Soviet immunology problem-----	1955
USIS, see United States Information Service.		NIISI polyvaccine and trivaccine, comparative immunological characterization, USSR-----	1878
USLI, see Life Insurance.		role in immunization USSR study-----	12941
USSR, see Union of Soviet Socialist Republics.		tularemia vaccine-prophylaxis studies, USSR-----	9251
Ussuri River, region, economic geography-----	1748, 9184	see also Poliomyelitis vaccine.	
Ust'-Kamenogorsk, U.S.S.R., lead-zinc mastering of slag fuming plant-----	1784	Vacuum:	
Utah:		magnetic fields in torus with multipolar windings-----	4321
Cedar Mountain area, Emery County, uranium resources-----	16467	vacuum-induction, vacuum-arc, and air-induction melting of complex heat-resistant alloy-----	13443
census of governments, 1957, State bulletin-----	13845	Vacuum cleaners:	
climatological data-----	2993, 11546	commercial and industrial, method of rating, standard of trade-----	13822
electric rate book-----	16333	Federal supply schedule-----	418
income tax, withholding from compensation of Federal employees, agreement-----	8262	Vacuum systems, electrical conduction in vacuum in high voltage generators, experiments-----	5641
mineral industry, minerals yearbook chapter-----	3853	Vaiden, Miss., motor vehicles accident-----	7883
precipitation data, hourly-----	2996, 11549	Vale project:	
radioactive ilmonite, preliminary study-----	3595	Bully Creek extension—	
snow survey and water supply forecasts-----	2944, 11487	Interior Dept. report-----	17323
women, legal status-----	17893	law-----	14088
Utah County, Utah, shaft sinking methods and costs at Burgin Shaft, Bear Creek Mining Co.--	6650	reports-----	9855, 12493
Ute Indians:		Valley of Fire, airborne radiometric reconnaissance-----	13798
Confederated Bands, transfer funds to Ute Mountain Tribe-----	14086	Vallo, Antonietta, relief-----	14129
law-----	14249, 14457	Valparaiso, Fla.:	
reports-----		land transfer-----	
Utensils, see Implements, utensils, etc.		hearings-----	9900
Utilities:		law-----	14063
Coast Guard to sell to purchasers in immediate vicinity-----	14011	reports-----	8724, 9862, 14493
law-----	12165	Valuation, group appraisal, tool for managerial development-----	1139
Utility companies, see Electric utilities—Public utilities.		Valuation decisions, see Interstate Commerce Commission.	
Utility man, I & C, Navy training courses-----	16980	Valves and valve cores, Federal supply schedule-----	3483
Uzbek Soviet Socialist Republic:		Vanadium:	
Academy of Sciences, handbook-----	10273	brittle-ductile transition-----	182
medical science development-----	16605	minerals yearbook chapter-----	10462
public health, perspectives of development-----	12971	output in ore and concentrate 1958-----	8045
Uzbekistan, see Uzbek Soviet Socialist Republic.		reports, monthly-----	2838, 11380
		Vandalia, Ill., railroad accident-----	12798
		Vanderlehr, Raymond A., and others, relief-----	7356
		Vanes:	
		fin-actuated jet control system for stabilization of rocket-powered models, investigation-----	3907
		flat, use for producing efficient wide-angle two-dimensional subsonic diffusers-----	1091
		Vanguard, see Rockets.	
		Vapor, see Water vapor.	
		Vaporators, device for measuring vapor source strength of CW-contaminated surfaces, background and prototype-----	17806
		Vaporization:	
		propellants, rocket engine experiments-----	3946
		unsteady, near stagnation point of blunt bodies-----	16885
		Vapors:	
		adsorption, role in structure of adsorbents, USSR study-----	10348
		adsorption isotherms, influence of porous structures of adsorbents on form, USSR study-----	12927

## V

V.A., see Veterans Administration.	
V.F.W., see Veterans of Foreign Wars of United States.	
VA, see Veterans Administration.	
Vacations, planning, Government publications, list-----	6903
Vaccination:	
against poliomyelitis in USSR, study of results-----	5149
calves against brucellosis, guide for identification-----	3038
morphological characteristics in process in brucellosis, USSR studies-----	6416
Vaccine:	
Brucella abortus strain 19, efficiency survey in Montana, 1952-58-----	8206
embryonic, for prophylaxis of spring-summer tick-borne encephalitis, USSR studies-----	5100

# JANUARY-DECEMBER

	Entry
Vapors—Continued	
mixture, adsorption out of solutions by porous adsorbents	
USSR study	14921
Variability (psychology):	
peer ratings in Air Force study	9646A
Variable-geometry annular cascade-type-inlet at Mach numbers 1.9 and 3.05	16791
Variables contributing to regular officer procurement panel scores	13779
Variation (biology):	
microorganisms, role of nucleic acids, USSR study	6485
plant polyploidy, evolution factor, etc., in organic world, USSR studies	3661
Variational theorem for creep with applications to plates and columns, errata	947
Varnish and varnishing, facts for industry	2371, 9721, 10902
Vascular lesions, <i>see</i> Lesions.	
Vascular system, <i>see</i> Cardiovascular system.	
Vasomotor influences from cephalic portion of vagos-sympathetic trunk severed in neck region in newborn animals (puppies), USSR	16620
VCI bibliography and abstracts	17009
VCI oils, properties and quality control tests	5368
Veal, purchase specification requirements approved by USDA	13694
Vector analysis, geostrophic winds, accuracy as function of station network density	17221
Vectors (biological):	
life histories and behavior, phony peach disease	3081
Vegetable fats, <i>see</i> Fats.	
Vegetable fibers, <i>see</i> Fibers.	
Vegetable oils <i>see</i> Oils.	
Vegetables:	
bargaining cooperatives, development and possibilities	7686
brining and pickling, publications, list	15293
California, frost damage	3022
canned market in public schools	11568
carlot and truck unloads, U.S. and Canadian cities, 1958	4136
carlot unloads	2231, 10685
commercial, fresh market, 1958 annual summary	38
commercial processing—acreage-marketing guides	3010
acreage, production, etc., 1958 summary	39
commercial reports, 1959 release dates, announcement	4142
culture, etc., publications, price list	9462
dehydrated, chemical control of microorganisms	4036
foreign trade prospects	3523
fresh—	
carlot shipments by States, etc., 1958	7006
foreign agriculture circulars	2643
fresh market acreage, production, etc.	2268, 10720
market news, weekly summary	2243, 10697
shipments by commodities, etc., 1958	7005
unloads, Washington, D.C., 1958	5506
frozen—	
agricultural exemption effects upon interstate transportation	5549
family purchases	7057

	Entry
Vegetables—Continued	
frozen—continued	
under agricultural exemption (paper)	32
greenhouse, control of insect pests	1295
imports under quarantine, 1957-58	6211
insects and diseases of plants	11626
irradiation, European interest	8393
loading out in wholesale warehouses	4178
market news—	
weekly arrival summary	2244
weekly shipment summary	2245
marketing margins	5482
Mexican winter production, survey, outlook for 1959 (statement)	444, 1274
paper-packaged displayed on ice, protection	1315
prepackaging, new breakthroughs (talk)	7026
processed, plants approved to pack under inspection, list	13676
processing, acreage, production, etc.	2269, 10721
production, Soviet abstracts	738, 2730
salt tolerance of crops in West	15304
seeds, foreign agriculture circulars	2643
spring, acreage-marketing guides	17
summer and fall, for fresh market, acreage-marketing guides	3009
transportation and marketing, effect of heavier loading of rail shipments (address)	7018
vegetable situation	2223, 10678
wholesale, auction, f.o.b. prices, 1958	4193
winter, acreage marketing guides, 1960	11559
<i>see also</i> names of vegetables.	
Vegetation, <i>see</i> Plants.	
Vehicles:	
equipment components, Federal supply schedule	17418
land, wheel substitutes, classification bulletin	17010
vehicular equipment components, Federal item identification guide for supply cataloging, supplement	3405
<i>see also</i> Motor vehicles.	
Velingrad, Bulgaria's resort place, description, etc., of recreation potentialities	851
Velocity:	
forward, effect on sound-pressure level in near noise field of moving jet	17739
growth of transverse disturbances in flame-generated shear region	2018
induced, near lifting rotor, charts	8083
interference-induced for multicopter helicopters, research study	9532
mean, equation for distribution of boundary layers	5278
measurement system, facilities and instrumentation of NRL laboratory	8150
space, diffusion effect on plasma oscillations	1390
turbine, diagram study	16794
wind, accuracy of measurements with automatic recorder M-12, USSR studies	1870
wind speed values, use in determining wind pressures in various U.S. areas	8096
Velvetbean caterpillars, how to control	11629
Vending machines:	
facts for industry, 1958	7214
errata	15481

# INDEX, 1959

	Entry
Vending machines—Continued	
industry, improper activities in labor or management field—	
investigation hearings.....	8892
use for employee food services in manufacturing plants.....	8319
Veneer logs, <i>see</i> Logs.	
Veneer mills, closures, result on veneer log production in Lake States, 1958.....	14733
Veneers:	
cutting and drying properties.....	12728
heating rates for logs, bolts and ditches.....	17455
industry, development in California.....	3553
publications.....	6242
softwood, facts for industry, 1958.....	15479
Veneral diseases:	
basic statistics on problem in U.S.—	8199
control, national program.....	17045
current literature.....	2895, 11437
milestone in control, highlights of half-century.....	1151
published materials currently available, announcement.....	13560
<i>see also</i> Lymphogranuloma venereum.	
Venezuela:	
economic developments, 1958.....	9070
economy, basic data.....	14692
foreign trade, 1956-57.....	472
installment sales, law.....	6223
patent and trademark regulations.....	3543
world's largest dollar market for U.S. livestock.....	12698
Ventilation, new system for potato storages.....	34
Venue, indictment and trial of joint offenders, amend U.S. Code, report.....	5843
Vermiculite, minerals yearbook chapter.....	16737
Vermont:	
census of governments, 1957, State bulletin.....	13846
electric rate book.....	10104
mineral industry, minerals yearbook chapter.....	15008
policemen and firemen, social security coverage—	
law.....	15649
report.....	6027
Vertebrates, central nervous system, mechanisms of physiologicomorphological evolution, USSR study.....	17632
Vertical distribution of pelagic fish eggs and larvae off California and Baja California.....	17428
Verticillium wilt, deciduous tree fruits.....	7043
Vesna radio-relay system of communications with automatic intermediate stations, USSR.....	12923
Vessels, <i>see</i> Fishing vessels—Ice breakers—Shipbuilding—Shipping—Ships—Tankers.	
Vestnick rentgenologii i radiologii (periodical):	
editorial.....	10375
Vetch, culture and uses.....	5531
Veterans:	
adopted child, amend definition of term—	
law.....	14050
reports.....	12214, 14452
benefits—	
available to veterans and dependents, fact sheet.....	6997
available to veterans and dependents, synopsis.....	7492
card calculator, 1959.....	3336
dependents and survivors, investigation, authorization, report.....	3295

	Entry
Veterans—Continued	
benefits—continued	
educational, extend to post-Korean veterans, hearings.....	10050
effect of State community property laws, opinion of Attorney General.....	3808
forfeiture program, laws, etc., U.S. Code—	
hearing.....	8760
law.....	15614
reports.....	8682, 14449
laws, compilation, print additional copies, report.....	4567
payment to certain aliens—	
law.....	12000
reports.....	9831, 12417
veterans and dependents, investigation, expenses, report.....	3308
disabled—	
beneficiaries of non-service-connected pensions, survey of financial condition, report.....	12320
grants for specially adapted housing—	
law.....	14084
reports.....	12219, 14511
education fund for children of disabled war veterans.....	2169
facts you should know upon relief from active duty or discharge.....	5614
Hansen's disease, 5-year presumption period—	
law.....	14043
reports.....	8677, 14446
hospital and medical care to citizens residing abroad, include those with peace-time service-incurred disabilities—	
law.....	14008
reports.....	14203, 14433
housing, <i>see</i> , in main alphabet, Housing.	
incompetents, benefits, disposition upon death—	
hearing.....	7491
law.....	12023
reports.....	7390, 8843
Korean conflict, educational, etc., benefits, amend change of program, provisions of law—	
hearings.....	10050, 12319
law.....	14006
reports.....	12213, 12437
loans, guaranteed and direct increase interest rate, hearings.....	4663
multiple sclerosis, 3-year presumption period—	
law.....	14042
reports.....	8674, 12517
naturalization benefits.....	4943
pension, <i>see also</i> in main alphabet Pensions.	
post-Korean, readjustment assistance act of 1959—	
hearings.....	10050
report.....	12434
views.....	12434
publications, price list.....	17826
relief, code of Federal regulations.....	4822
selected Government publications of interest.....	17035
servicemen's readjustment act of 1944, amend, report.....	8652
State employment representatives, examination announcement.....	8486
unemployment compensation appropriations, 1959, law.....	7301
<i>see also</i> Life insurance—Pensions—Railroad employees—Rehabilitation of the disabled.	
Veterans Administration:	
administrator's decision.....	2980, 11534
appropriations, 1960, hearings.....	5914
career opportunities, librarians.....	8266
circulars.....	2981, 11535



Entry	Entry
<b>Veterans Administration—Con.</b>	<b>Veterans hospitals:</b>
costs recovery of Veterans Canteen	deferred maintenance, hearing.... 7490
Service building space—	hospital policy of VA, hearings.... 4662
law..... 11996	management team for voluntary
reports..... 8679, 12418	service..... 5453
employees, U.S. citizens in Philip-	packing house and dairy products
pines, benefits—	standard specifications..... 4118
law..... 12003	VA medical research program re-
reports..... 8679, 12418	port..... 323
employment benefits for employees.. 8265	<b>Veterans of Foreign Wars of United</b>
fact sheet, IS (series)..... 6997	<b>States:</b>
grants to disabled veterans for	convention, proceedings..... 9801
specially adapted housing—	property in D.C., exempt from tax-
law..... 14084	ation—
reports..... 12219, 14511	law..... 15698
hospital administration, resident,	reports..... 14202, 16140
examination announcement..... 3205	<b>Veterans organizations, legislative</b>
hospital policy, hearings..... 4662	objectives, hearings..... 5937
information bulletin IB Series..... 9537,	<i>see also</i> names of organizations.
10630, 17150, 17885	<b>Veterans' preference benefits, <i>see</i></b>
librarian, examination announce-	<b>Civil service.</b>
ment..... 8476	<b>Veterinarians:</b>
loan guaranty and direct loan pro-	career opportunities, Agricultural
grams—	Research Service..... 1316
additional funds, law..... 9793	examination announcement..... 11832
additional funds, reports..... 3312, 4547	Federal, in meat inspection, facts
extend, report..... 12221	concerning job..... 9590
maintain regional office in each	<b>Veterinary instruments and ap-</b>
State—	<b>paratus:</b>
hearing..... 9931	Federal item identification guides
manual M-2 (series)..... 13654	for supply cataloging..... 350
medical research report..... 323	Federal supply schedules.. 409, 17419-420
patent practices, preliminary re-	<b>Veterinary medicine:</b>
port..... 14573	progress in USSR (talk)..... 9586
personnel information bulletins..... 9537,	Soviet, notes on people and insti-
10630, 17150, 17885	tutions..... 17573
physically handicapped workers.. 6998	veterinary science in Soviet Union,
procurement, small business par-	report of U.S. technical study
ticipation, report..... 1565	group..... 15329
publications, index..... 2168, 9536	<b>Veterinary supplies, <i>see</i> Veterinary</b>
regional office in Philippines, con-	<b>instruments and apparatus.</b>
tinue—	<b>Veterinary zoology, <i>see</i> Zoology.</b>
law..... 11990	<b>Veto messages, <i>see</i> President of</b>
reports..... 8680, 12419	<b>United States.</b>
regulations on forfeiture of veter-	<b>VFW, <i>see</i> Veterans of Foreign Wars</b>
ans benefits, clarify—	<b>of United States.</b>
hearing..... 8760	<b>Vg series..... 2268-69, 10720-721</b>
law..... 15614	<b>VHF, <i>see</i> Omnilanges.</b>
reports..... 8682, 14449	<b>VHF television, <i>see</i> Television.</b>
report, 1958..... 6995	<b>VHMCP, <i>see</i> Voluntary Home Mort-</b>
departmental edition..... 5797	<b>gage Credit Program.</b>
document edition..... 13655-656.	<b>Vibration:</b>
training guide TG series..... 17887	characteristics of 45° delta-wing
VA pamphlets..... 1220,	specimen—
2169-71, 4117-18, 6998, 8265-66,	application of Stein and Sanders
9538, 10631, 13657, 17886	method of calculation..... 3931
<b>Veterans Administration manual..... 1219</b>	evaluation of Levy method of cal-
<b>voluntary service—</b>	culation..... 3932
management criteria for pro-	characteristics of large-panel
gram planning and conduct,	houses, USSR study..... 12953
program guide..... 13654	circular-arc monocoque beams..... 15079
VA management team..... 5453	delta wings, flutter characteristics
<b>Veterans' Affairs Committee, House:</b>	at supersonic speeds, methods
calendars..... 2460, 10902	for computing and comparison
hearings, etc..... 323, 4662-63, 5937,	with experimental data..... 13442
7490-91, 8760-61, 9931, 12319-	diphenyl and deca-deutero-diphenyl
320.	spectra, USSR study..... 16540
Investigations and studies, matters	effect on metabolism of certain vita-
within its jurisdiction—	mins in human body, USSR
authorization, report..... 3295	study..... 14916
expenses, report..... 3308	<b>helicopters—</b>
reports..... 3312,	flight measurements in transi-
7390, 8673-82, 9830-31, 9847,	tion vortex-ring state, etc..... 1097
12213-214, 12216-219, 12221,	hygienic evaluation, USSR
14203.	study..... 12976
synopsis of veterans benefits..... 7492	manual for engineers..... 8213
<b>Veterans' Affairs Committee, Senate,</b>	modes of multispar 60° delta
create, hearings..... 12568	wings, experimental influence
<b>Veterans Canteen Service:</b>	coefficients..... 9365
audit report, 1958..... 3284	plate moving in gas..... 3949
building space in VA installations,	rapid measurement of rate of de-
costs recovery—	cay of free vibrations..... 17457
law..... 11996	<b>Rotating wing aircraft bending</b>
reports..... 8679, 12418	moments and flapping angles,
	effect of flapping-hinge offset.. 6775

# INDEX, 1959

	Entry		Entry
Vibration—Continued		Vietnam—Continued	
self-excited mechanical oscillations		North—Continued	
of helicopter rotors.....	2017	non-economic data, translations.....	16559
errata.....	5215	production teams, producer co-	
significance in industrial hygiene,		operatives and handicraft pro-	
book review.....	12967	ducer cooperatives, differences.....	4967
stresses on propeller, flight meas-		realization of production plan.....	6432
urement.....	1098	scientific organizations, transla-	
supersonic, effect on crystalliza-		tions.....	14887
tion process, USSR studies.....	10363	scientific research, rainfall and	
wings and ailerons, flutter data of		drought prevention relation-	
rocket-propelled vehicles in		ship.....	6404
transonic speed range.....	1054	socialist industrialization expan-	
Vibrational spectra, <i>see</i> Spectra.		sion.....	12816
Vibroconcrete factory for prefabricated		Soviet bloc assistance, selected	
concrete and reinforced concrete		newspaper articles.....	13025
in Sofia.....	608	State Science Commission, estab-	
Vicksburg, Miss.: bridge across Mississippi River, re-		lishment.....	10209
peal act authorizing.....	14046	three-year industrial plan impor-	
law.....	9866	tant step in industrial sociali-	
Victory Carriers, Inc., trade-out and		zation.....	6361
build activities, hearings.....	319	over-all activities of the govern-	
Viet-Nam, <i>see</i> Vietnam.		ment, report of Prime Minister to	
Vietnam:		9th session of National Assem-	
agricultural products technical re-		sembly.....	4993
form under winter-spring pro-		Polish IGY expedition, literature	
duction plan.....	5005	translations.....	6381
atomic energy cooperation for civil		preparing shipments to.....	14703
uses, agreement.....	13628	propaganda, psychological warfare,	
behavior and virtue of nationalist		and intellectual mobilization.....	6590
cadre and revolutionary vir-		revolution is task of the masses.....	4998
tue.....	6589	selected projects of mutual security	
Democratic Republic, criminal legis-		program, staff report on field	
lation.....	592	survey.....	8734
economy, basic data.....	9072	United States Operations Mission,	
first state farms in democratic		report, 1958.....	12788
republic.....	3671	Vietnamese Association of Eastern	
Labor-Youth League, resolution of		Medicine, constitution.....	3651
6th Congress of central execu-		Viewers (photography):	
tive committee.....	12832	motion picture film, 16-mm, mili-	
mutual security program and re-		tary standard.....	10066
lated activities, administra-		Viking rocket, <i>see</i> Rockets.	
tion, hearings.....	16201	Villa Park, Ill., population, special	
North:		census.....	8447
agricultural cooperatives, arti-		Villanueva, Remedios, relief.....	12111,
cles.....	10306	14130, 15594, 16025	14161
agricultural cooperativization,		Vincent, William J., relief.....	
economic data, translations.....	16527	Vinciguerra lucetta, and related	
agricultural reforms and coopera-		species, development and distri-	
tization.....	14830	bution in eastern Pacific.....	3497
agriculture development, selected		Vines, planting and maintenance,	
newspaper articles.....	4990	manual.....	8956
autonomous zones, progress re-		Vinifera (species), <i>see</i> Grapes.	
ports.....	16559	Vinyl-lacquer coating for interior of	
basic construction—		military steel pipeline tubing.....	4789
articles.....	13094	Vinyl plastics, biocides for strippable	
financial and accounting as-		barrier material.....	5366
pects.....	9169	Viral hemorrhagic fevers, USSR.....	6394
financial and accounting as-		Virgin Islands:	
pects, errata.....	12801	climatic summary, 1931-52.....	17153
economic data, translations.....	16530	climatological data.....	2993,
economic reports.....	6371	coast pilot, supp.....	5756
election of provincial and district		deaths, leading causes, 1957.....	8117
Lao Dong Party committees.....	6512	fetal deaths, 1957, national sum-	
fishing industry, articles.....	10215	maries.....	16960
forests and problems of forestry		general information.....	13647
government report on three-year		geographic names, decisions.....	10186
plan, 1958-60.....	6390	Governor, report, 1958.....	7871
Hanoi, articles.....	6537	income tax, limitation on reduction	
history and functions of Cultural-		infant mortality, 1957.....	15885
Historical, Geographic Re-		mail routes, schedule.....	16959
search Commission.....	12813	marriages, divorces and annul-	
industry and agriculture, rela-		ments, 1957.....	2102
tionship.....	10295	marriages and divorces, 1957.....	9412
labor, articles.....	6538	maternal mortality, 1957.....	9413
Lao Dong Party Central commit-		minerals industry, minerals year-	
tee directive on agricultural co-		book chapter.....	16958
operativization.....	6373	minimum wage rates, biennial re-	
1958 state plan basic to 1958-60		views, hearing.....	17683
3-year plan.....	6365	mortality data, 1957, national sum-	
1959 state plan, newspaper arti-		maries.....	808
cles.....	13064	mortality from selected causes,	
		1957.....	10522
		motorboat act of 1940, make appli-	
		cable, report.....	6824
			16067

# JANUARY-DECEMBER

	Entry
<b>Virgin Islands—Continued</b>	
nativity, 1957, national summaries—	16961
national atlas sheets—	
aerial mosaics status—	14750
aerial photography status—	14751
topographic mapping status—	14752
organic act, amend—	
law—	15654
reports—	15786, 16160
publications, price list—	8186
storm warning facilities chart, 1959—	9546
wage order procedure, under fair labor standards act—	4121
<b>Virgin Islands Corporation:</b>	
appropriations, 1960—	
hearings—	5911, 8883
law—	11961
reports—	5876, 8713, 8844
audit report, 1958—	3286
sugar operations, economic appraisal—	15944
<b>Virgin Islands National Historic Site,</b>	
general information—	6836
<b>Virginia:</b>	
boundary line compact with West Virginia, consent of Congress—	
law—	15696
reports—	8714, 16150
census of government, 1957, State bulletin—	11801
climatological data—	2993, 11546
crops and livestock—	2224, 10679
electric rate book—	16334
government agencies concerned with land use, planning, conservation in Washington metropolitan area, staff study—	3399
minerals industry, minerals year-book chapter—	3854
precipitation data, hourly—	2996, 11549
southwestern, quartz crystal deposits, reports on sources and origin—	6286
timber cull study, analysis—	490
timber supply, 1957 survey—	14736
transportation problems in Washington Metropolitan area hearings, print additional copies, report—	7425
TVA program activities—	2164
Washington metropolitan area, coordinated development with development of D.C., report—	12403
Virginia Beach, Va., behavior of beach fill, study—	17383
Virginian Railway, accident—	6340
Virology, <i>see</i> Viruses.	
Virtue, study on behavior and virtue of nationalist cadre and revolutionary virtue—	6589
<b>Virus diseases:</b>	
apples, United States and Canada—	4160
hellomycin, new antiviral antibiotic, USSR studies—	6437
<b>Virus hepatitis, <i>see</i> Hepatitis.</b>	
<b>Viruses:</b>	
biology, Poland—	1877
detection by use of non-microbial absorbents, USSR studies—	3753
fixed rabies, experimental effect of purified microcide, Ukrainian SSR studies—	3799
hellomycin, new antiviral antibiotic, USSR studies—	6437
infective, use of impregnated alginate paper filters in ventilating systems for purification of air—	1908
smallpox, experimental effect of purified microcide Ukrainian SSR studies—	3799
Soviet abstracts—	16588, 17600

	Entry
<b>Viruses—Continued</b>	
virology, Soviet abstracts—	3757, 5077, 6514, 6517, 6529, 10280, 13032, 13090, 13137, 13145, 13152.
virus diseases of apples, United States and Canada—	4160
Visas, <i>see</i> Passports.	
Visco-elastic properties of snow and ice in Greenland ice cap—	17380
Viscous flow, <i>see</i> Flow.	
Visibility:	
daytime conspicuity determination of small airplane in terminal area—	9480
method of measuring, determination of illumination and visual fatigue, USSR studies—	6598
Vision, <i>see</i> Sight.	
Visiting housekeepers:	
homemaker services—	
in public assistance—	4013
nationwide study, 1958—	4023
program descriptions—	4024
Visual aid:	
AFVA, Air Force visual aid series—	5565, 8345
radioactive self-luminous aids to night military activity, recent advance—	5347
Visual arts, <i>see</i> Art.	
Visual presentation of information—	7121
Vital statistics:	
life tables, method of constructing, natural, divisional and state—	16956
monthly vital statistics report—	2856, 11397
publications, price list—	15162
rates in U.S., 1900-40, techniques—	13470
special reports—	3960-67, 5328-32, 6818-23, 8110-16, 10513-523, 13471-486, 15100-113.
life tables—	16956
national summaries—	1109, 2066, 3968, 6824, 8117-18, 9412-13, 10522, 15112-113, 16957-962.
title page and contents, v. 48—	2066
selected studies—	5119, 10523, 16963
title page and contents, v. 49—	16965
United States, 1957—	9411, 16954
<i>see also</i> Birth—Death—Divorces	
Life tables—Marriage—Still-birth.	
Vitamins:	
ascorbic acid as antioxidant for frozen oysters—	9036
B-complex, effect on resistance of organism to radiation, USSR studies—	9248
B <sub>1</sub> and C requirements during participants in sports, USSR study—	12958
C, content of certain preparations and foodstuffs, after effect of ionizing radiation, USSR study—	3720
C, metabolism problem in radiation sickness, USSR study—	6593
effect of copper-chelating ability of oyster tissue on oxidative rancidity and efficacy of ascorbic acid as antioxidant—	9036
fourth all-Union conference, USSR, summary—	6596
metabolism in human body, effects of vibration, USSR study—	14916
needs of dairy cattle—	7086
P, prepared from eglantine hips, effect on endurance of animals in rarified atmosphere, USSR study—	7933
water soluble, requirements of silver salmon—	4865

# INDEX, 1959

Entry	Entry
Vivariums, simple marine, how to make.....	6191
Vocational counselors, <i>see</i> Counselors.	
Vocational Division, bulletins.....	3424, 8949, 12599, 14595-596, 16261
Vocational education:	
adult Indians amend act, report.....	16052
agriculture, teachers, inservice education, criteria for evaluating statewide programs.....	14595
area programs, national defense education act—	
administration, hearings.....	5924
guide.....	3420
suggestions to States.....	4778
under national defense education act, administration regulations.....	16259
digest of State boards reports.....	10079
home economics teacher training and departments, institutional heads, list.....	6097
public schools with aviation or ground school courses approved by FAA.....	12595
Vocational guidance, approach to individual analysis through effective services.....	1591
Vocational rehabilitation, <i>see</i> Rehabilitation of the disabled.	
Vocational Rehabilitation Office:	
information services series.....	2982, 11536
research and demonstration projects supported, bibliography.....	13658
Voice of America:	
operations, review, hearings.....	3323
radio relay facilities, agreement with Liberia.....	17122
Volatilization, <i>see</i> Evaporation.	
Volcanic rocks, <i>see</i> Igneous rocks.	
Volcanoes:	
Alaska, Investigations (series).....	3593, 7844-45, 9114
Hawaiian Volcano Observatory manual.....	2655
Volga River hydroelectric power station, USSR, development.....	9261
VOLSCAN, <i>see</i> Air traffic.	
Voltages:	
amplitudes, multiple-channel elapsed time recorders.....	5343
higher, utilization of existing systems for operation, Poland.....	1814
low, DC signals, algebraic summing with electrolytic capacitors.....	10539
Poland, high line and station lightning protection, economical evaluation.....	674
Polish high systems, need for employing series capacitors.....	673
power supply, for electronic equipment, military standard.....	6089
Volume and yield tables:	
felled trees, method of estimating cubic volume.....	16438
grading and measuring hickory trees, logs, and products.....	6270
international 1/4-in. board foot, for old-field slash pine plantations in middle coastal plain of Georgia.....	10181
red alder and Sitka spruce.....	16439
selection of stand variables in southern Maine for making volume estimates from aerial photos.....	17469
shortleaf pine.....	476
slash pine plantations of middle coastal plain of Georgia and Carolina sandhills.....	12754
3 scales of aerial photography compared for making stand measurements.....	17468
timber in Wisconsin counties.....	17462
Volumetric analysis, metal-indicator systems in (ethylenedinitrilo) tetraacetic acid titrations.....	179
Volumetric apparatus, glass, testing.....	6802
Volumetric scanning GCA antenna prototype.....	1126
Voluntary Foreign Aid, Advisory Committee on <i>see</i> Advisory Committee on Voluntary Foreign Aid.	
Voluntary Home Mortgage Credit Program:	
annual report.....	3608
extend, law.....	13994
Vonderlehr, Raymond A., and others, relief.....	7356
VOR, <i>see</i> Omnitranges.	
VORTAC, <i>see</i> Air navigation.	
Vortex motion:	
atmosphere, conditions in formation of vortices, qualitative analysis, USSR studies.....	7905
evaluation of approximation errors in solution of vorticity transfer equations by method of successive approximations, USSR studies.....	1793
linearized theory as applied to hovering rotors in and out of ground effect, evaluation.....	16886
wake vortex characteristics on inclined ogive-cylinder body at Mach number 2.....	5219
Voss, Christian, and wife, relief.....	9819
Voting, <i>see</i> Elections.	
Voyenno-meditsinskiy zhurnal, articles.....	1816, 1846, 3741, 6433 9220, 9237, 10340, 2172
VR-ISC series.....	
VSLI, <i>see</i> Life insurance.	
Vulcanized rubber, <i>see</i> Rubber.	
W	
W series.....	2854, 11396
W.S. series.....	2243, 10697
WAAC, <i>see</i> Women's Army Auxiliary Corps.	
Wabash R.R., accident.....	548
Wabash River and Valley:	
water conservation, etc., compact, approval.....	15739
reports.....	15799, 16070
Wabash Valley Interstate Commission:	
compact creating, approval.....	15739
reports.....	15799, 16070
Wabunsee County, Kans., geology.....	12761
WADC, <i>see</i> Wright Air Development Center.	
Wage and Hour and Public Contracts Divisions:	
explanatory bulletin.....	5455
industry pamphlets.....	5456-58
interpretative bulletins.....	1221, 4120, 8267-68, 10632
question and answers, QA-IND series.....	9543
regulations.....	1222-29, 4121, 5459, 15237
releases.....	2983, 11537
Wage chronology, <i>see</i> Wages.	
Wage earners, <i>see</i> Labor (periodical).	
Wagering, <i>see</i> Gambling.	
Wages:	
attachments and garnishment, amend D.C. Code.....	9906
hearings.....	12016
law.....	10013
reports.....	5892
automotive parts wholesaling, Federal wage-hour law application.....	5457



# JANUARY-DECEMBER

	Entry
Wages—Continued	
chronology—	
American Viscose Corp., 1952-58.....	5176
Anaconda Co., 1954-58.....	9307
Federal classification act employees, 1952-58.....	3818
Ford Motor Co., 1955-59.....	17668
Pacific Coast shipbuilding, 1954-58.....	10405
Communist China—	
levels, systems, and welfare benefits.....	705
newspaper summaries, etc.....	6452
theories, translations from political and sociological publications.....	13221
cotton, silk and synthetic textiles manufacture, summary release.....	3817
current developments.....	2737, 11274
electron tube and related products industry.....	13293
employees of naval activities, repeal authority of Secretary of Navy to establish, hearing.....	4638
employment, hours and earnings, monthly release.....	2750, 11287
employment and earnings (periodical).....	2738, 11275
factory workers earnings, May 1958—	
departmental edition.....	13290
document edition.....	12044
production workers distribution—	5167
fair labor standards act, amend, hearings.....	12564
farm labor market developments, supplements.....	2503, 11034
Federal civilian workers covered by unemployment compensation.....	3425
food marketing, differentials in workers earnings.....	13682
Guam, Federal wage and hour law application.....	4119
indexes and statistics produced by Labor Statistics Bureau as related to users interpretations (address).....	10406
iron and steel industry, developments.....	8010
limitation elimination for wage earners under bankruptcy act—	
law.....	7313
reports.....	4622, 7543
manufacturing division.....	9298
minimum—	
plant adjustments.....	887
recommendations of industry committees, Secretary of Labor to review, hearings.....	12564
State laws and orders—	
analysis of rates and coverage.....	5467
historical development and statutory provisions.....	5466
provisions, affecting working conditions, 1942-59.....	13663
wage coverage, increase to \$1.25, hearings.....	12564
wage laws and orders, analysis of rates and coverage.....	17894
narrow fabrics, cordage and twine, surgical dressings, manufacture, earnings.....	9296
net spendable earnings, monthly release.....	2755, 11293
Netherlands, controls.....	884
nonagricultural industries, technical note.....	9319

	Entry
Wages—Continued	
nonsupervisory workers in whole-sale trade, straight-time hourly earnings—	
departmental edition.....	16658
document edition.....	15763
occupational survey—	
Atlanta, Ga.—	
departmental edition.....	13266
document edition.....	12036
Baltimore, Md.—	
departmental edition.....	3814
document edition.....	3270
Boston, Mass.—	
departmental edition.....	5171
document edition.....	4432
Buffalo, N.Y.—	
departmental edition.....	3815
document edition.....	3271
Chicago, Ill.—	
departmental edition.....	13285
document edition.....	12035
Dallas, Tex.—	
departmental edition.....	5170
document edition.....	4431
Denver, Colo.—	
departmental edition.....	5172
document edition.....	4433
Detroit, Mich.—	
departmental edition.....	9286
document edition.....	8530
Lawrence, Mass.—	
departmental edition.....	16657
document edition.....	15761
Los Angeles-Long Beach, Calif.—	
departmental edition.....	10403
document edition.....	9796
Memphis, Tenn.—	
departmental edition.....	7976
document edition.....	7323
Milwaukee, Wis.—	
departmental edition.....	13283
document edition.....	12033
Minneapolis and St. Paul, Minn.—	
departmental edition.....	7977
document edition.....	7324
New Orleans, La.—	
departmental edition.....	9287
document edition.....	8531
New York, N.Y.—	
departmental edition.....	13284
document edition.....	12034
Newark-Jersey City, N.J.—	
departmental edition.....	6633
document edition.....	5794
Philadelphia, Pa.—	
departmental edition.....	6632
document edition.....	5793
Portland, Oreg.—	
departmental edition.....	13287
document edition.....	12037
St. Louis, Mo.—	
departmental edition.....	3816
document edition.....	3272
San Francisco and Oakland, Calif.—	
departmental edition.....	7978
document edition.....	7325
Seattle, Wash.—	
departmental edition.....	881
document edition.....	300
overtime pay—	
computing, regulations.....	1228
interpretations of terms used.....	5455
Customs Bureau employees	
claims, report.....	16074
payment, methods under fair labor standards act.....	8267
payment and collection, State legislation and administration.....	16653
Portsmouth, N.H., naval shipyard employees, regulate rates—	
hearing.....	7608
report.....	8817

Do not order from index; see indicated entry

# INDEX, 1959

	Entry		Entry
Wages—Continued		WAL, <i>see</i> Watertown Arsenal Laboratory.	
poultry and egg business, Federal wage-hour law applications.	5458	Wales, west coast, sailing directions.	14776
proposed increases, policies in President's program, amend employment act—		Walker, Wiley W., conveyance of property to—	12114, 14415, 15568
hearings—	7467	Wall turbulence—	6795
report—	9848	Wallich, Henry C., nomination, hearing—	7609
views—	9848	Walls:	
railroad employees, class 1 railroads—	2721, 11260	frame, adequacy of light construction—	6253
rate setting by Army-Air Force Wage Board for employees—	885	materials, plans for supplying Poland's construction industry—	1891
salaries, and related benefits, study, July 1957-June 1958—	9318	pole-type buildings, farm building plan—	11642
seamen prohibit arrestment under State tax laws—		sound insulation, supp—	2055
hearing—	12552	Walnut, black, selling timber—	7048
law—	15633	Walrus, Pacific, review of current knowledge and suggested management needs—	6202
reports—	12256, 12393, 14301	Walsenburg, Colo., railroad accidents—	6342, 7884
seamen on U.S. flag ships—		Walter F. George lock and dam, hydraulic model investigation—	14605
departmental edition—	3812	Wapato project:	
document edition—	3268	non-Indian-owned lands, irrigation charges deferment, etc., approval—	
shipyards, straight-time hourly earnings, type of construction by region, indexes—	11289	law—	15646
standards established for Puerto Rico and Virgin Islands, biennial reviews, hearing—	308	reports—	7391, 14532
State and industry, statistics, guide—	7982	War, American fighting men from Revolution to Korea (announcement of color reproductions)—	6901
structure—		War between the States, <i>see</i> Civil War. 1861-65.	
auto dealer repair shops, summer 1958—	6630	War claims, <i>see</i> Claims.	
machinery manufacturing—		War materials, <i>see</i> Military supplies.	
winter 1957-58—	880	War orphans education—	2169
winter 1958-59—	17667	War planning, <i>see</i> Military art and science.	
men's and boys' suits and coats—	6629	War risk insurance:	
synthetic fibers—	14971	marine, extension of authority—	
union—		law—	12006
building trades—		reports—	8808, 12139, 12464
departmental edition—	9290	seamen's benefits, transfer functions—	
document edition—	8537	law—	14081
local-transit operating employees—		report—	14296
departmental edition—	5173	WAR series—	2839, 11381
document edition—	4451	War with Spain, 1898:	
motortruck drivers and helpers—		veterans, orphans educational benefits, provide—	
departmental edition—	9291	law—	15619
document edition—	8538	reports—	12216, 18066
printing industry—		Ward, Erika, E. I., relief—	8900A, 13921, 14122
departmental edition—	13288	Wardrobes:	
document edition—	12040	wood—	
union contracts, premium pay for night, weekend, and overtime work—		executive office, Federal standard—	17416
departmental edition—	13289	general office, Federal standard—	16354
document edition—	12043	Warehouse examiners, examination announcement, discontinuance notice—	9737
wage order procedure for Puerto Rico, Virgin Islands, and American Samoa, under fair labor standards act—	4121	Warehousemen and Helpers of America, International Brotherhood, <i>see</i> International Brotherhood of Teamsters, Chauffeurs, Warehousemen, and Helpers of America.	
wages and related benefits, 19 labor markets, 1957-58—		Warehouses:	
departmental edition—	6631	commercial services, household goods of military personnel—	351, 8921
document edition—	5790	grocery, layout and equipment for maximum productivity—	11638
waste material industry, Federal law application—	9543	refrigerated, United States, directory—	3017
wholesale grocery business, Federal wage-hour law application—	5456	tobacco, use of pyrethrum mists and aerosols for control of insects—	11630
wholesale trade—	8012	errata—	17199
women, equal-pay, digest of State laws—	5468	warehouse acts, compilation—	1511
workers covered by State unemployment insurance laws—	2500, 11031	wholesale, loading out fruits and vegetables—	4178
Wagon Creek, dam site, map, national atlas sheet—	14749		
Wah, Wong Gar, <i>see</i> Wong Gar Wah,			
Waite, Morrison R., papers in Library of Congress, register—	14978		
Wake (aircraft):			
mixing in turbulent shear flow—	16905		
Wake Island, national atlas sheet, topographic mapping status—	14752		
Wakelin, J. H., Jr., nomination hearing—	12524		

# JANUARY-DECEMBER

	Entry
Warfare, <i>see</i> Atomic warfare—Biological warfare—Chemical warfare—Radiological warfare.	
Warm air furnaces, <i>see</i> Furnaces.	
Warm Springs Reservation:	
Oregon land donation—	
law	9791
reports	8645, 8837
Warner Robins, Ga.:	
land conveyance—	
law	13999
report	8653
Warning systems:	
ballistic missile early warning systems, establish, agreement with Canada	15212
communication plan for seismic sea wave warning system	3235
warning and control system against air attack, establishment, agreement with Canada.	9515
<i>see also</i> Alarm systems.	
Warrant officers, <i>see</i> Air Force—Coast Guard Reserve—Marine Corps—National Guard—Navy.	
Warrants (vouchers), <i>see</i> Accounts and accounting.	
Warren, Oakley O., relief	8623
Warren County, Ga., quarrying crushed granite, methods and practices of Weston-Brooker Co.	5187
Warren Robins, Ga., land conveyance, report	12450
Warships:	
atomic surface units of U.S. Navy, 1958 status, etc.	13795
construction of naval vessels, authorize—	
hearings	7606
law	7312
reports	4587, 5840, 6026
<i>see also</i> Destroyers (warships).	
Warts, cattle, description, treatment, etc.	1300
Wasco County, Oreg., forest statistics	491
Washing machines, selection and use	94
Washington, George:	
farewell address to people of U.S.—	
print as House document, etc., report	5832
text	5814
statue for presentation to Uruguay—	
law	15710
reports	15874, 16168
Washington, D.C., <i>see</i> Capital of United States—District of Columbia.	
Washington County, Mo., Indian Creek Mine, mining and milling methods and costs	6046
Washington County, Okla., water-flooding projects	10427
Washington County, Pa., coal preparation characteristics	9355
Washington Metropolitan Problems Joint Committee:	
committee prints	341-343, 1572, 3390-3400, 4749, 6077, 16231
continue, reports	12481, 12509
final report, Federal and D.C. agencies to study, report	12403
investigations and studies, growth and expansion of D.C., extension, reports	3353, 4702
report	4704
staff report	17362
Washington National Airport:	
general information	17772
local climatological data	2988, 11540

	Entry
Washington State:	
agricultural conservation handbook	15
census of governments, 1957, State bulletin	13847
climatological data	2903, 11546
coast pilot	13898
economic growth patterns	9308
mineral industry, minerals year-book chapters	1098, 17702
precipitation data, hourly	2096, 11549
purchase of Columbia Basin project lands—	
law	11953
reports	4611, 8820
reconnaissance for radioactive minerals, 1952-55	3600
snow surveys and water supply forecasts	11488
surface water supply, Pacific slope basins	10105
western, forest fire weather, 1958 season	1691
Washington State Dental Service Corporation, public assistance program, report	17039
Waste disposal, <i>see</i> Radioactive waste disposal.	
Waste paper baskets, <i>see</i> Baskets.	
Waste products:	
canned fish and byproducts, annual summary	6187
chlortetracycline, use for livestock raising needs, USSR study—disposal—	10351
milk processing industry, guide—sanitary and industrial waste sewers, engineering manual—sewage and industrial waste pumping stations, engineering manual	17044, 379, 381
industrial plants, maintenance, operation, etc., Air Force manual	3097
waste material industry, Federal wage-hour law application, questions and answers	9543
waste oil, from steel rolling mills, recovery for abating steam pollution	9337
<i>see also</i> Radioactive substances—Refuse.	
Watch Hill, R.I., to Fenwick Island, Del., light list	5761
Watches, <i>see</i> Clocks and watches.	
Water:	
chemical quality, Lodgepole Creek drainage basin	16472
conservation—	
activities for Boy Scouts	1319
catalog of practices and measures used	10387
China—	
construction	593, 16520
developments in 1958	9160
information report, 1958	6353
plans, extracts	4984
various aspects	14800
conserving our legacy (talk)	8224
development (talk)	8225
economics important (talk)	8228
facilities, construction by States, etc., amend Federal power act—	
law	12010
reports	7544, 12119
facility needs, report of research findings	15997
Hawaii and Nation (talk)	4063
Little River system of reservoirs, Interior Dept. report	1516
phreatophyte research in western U.S., Oct. 1958-Mar. 1959	12766
problems (address)	11618

Do not order from index; see indicated entry

513

# INDEX, 1959

	Entry
Water—Continued	
conservation—continued	
professional conservationist of tomorrow (talk).....	2136
relation to soil compaction on forest and range lands.....	3074
Shantung Province plan, 1959-62.....	10242
electrical resistance measurements obtained by resistivity meter in fishery investigations.....	7758
excess and deficiency, reactions in postnatal period, USSR study.....	17633
flow-duration curves, manual.....	17495
ground water—	
appraisal of Santa Ynez River basin.....	9125
artificial recharge bibliography—chemical quality—	4932
Big Blue River Basin.....	7862
Clay County, Nebr.....	9126
Niobrara River and Ponca Creek Basins.....	7860
Torrance-Santa Monica area, Calif.....	9123
conditions in San Joaquin Valley, Calif.....	14762
features of Humboldt County, Calif.....	9127
features of Scott Valley, Calif.....	3606
resources, middle Big Wood River-Silver Creek area, Blaine County, Idaho.....	12774
withdrawal from Long Beach-Santa Ana area, 1932-41.....	12773
heating, how to make your milk cooler heat water.....	9587
iron chemistry.....	17494
landing characteristics of conical-shaped reentry capsule.....	10497
low-flow techniques (series).....	17495
low velocities of water current, instrument for measuring, USSR studies.....	6588
minerals yearbook chapter.....	16738
natural, chemical characteristics, study and interpretation.....	6297
portable, responsibilities for production and distribution during disasters.....	1482
program needs in Texas (address)—quality—	17484
suitability for irrigation use, analysis.....	83
Wenatchee River Basin, studies.....	6195
radioactive contamination of fish in water containing strontium.....	13796
radionuclides content, maximum permissible concentration for occupational exposure.....	9396
resources—	
Alaska, appropriations for investigation, remove limitations report.....	12496
development feasibility criteria, establish, hearings.....	1551
developments, capital investment values, 1900-75.....	11769
projects, evaluation of benefits and costs.....	9138
saline, conversion report, 1958.....	4950
saturation and other core tests on Appalachian oil-reservoir sandstones.....	6062
spreading for storage underground, Stamp Creek logging operations, etc.....	4196
strontium determination, survey of analytical methods.....	3587
surface water—	
Alaska, quantity and quality.....	9129
quality determinations throughout U.S., Oct. 1, 1957-Sept. 30, 1958.....	1716
	9471

	Entry
Water—Continued	
surface water—continued	
quality, irrigation, western U.S., 1955.....	9124
quality, United States, 1954-4931.....	7858
quality, United States, 1955.....	12772
	14759
underground and surface, engineering geology of eastern Siberia, USSR studies.....	6602
use, Columbia Basin project farms, limitations, amend act—	
law.....	11953
reports.....	4611
use as deluge agent in treatment of fluorine spills.....	8820
USSR—	
losses from stream run-off, snow thaw, etc., European territory.....	16894
reservoirs, effect of radioactive strontium on self-purification process.....	1885
use, report of U.S. technical study group.....	827
water and land problems.....	8335
yield and reservoir storage, United States.....	17082
see also Heavy water—Natural resources—Sea water—Stilling basins—also headings beginning Water.	3601
Water birds:	
crop depredation by waterfowl, prevent with use of CCC grain, make authorization permanent—	
law.....	13997
reports.....	9872
migratory—	12442
acquisition of wet-land areas for production, hearings.....	315
amend act relative to duck stamp proceeds, hearings.....	315
Water-borne commerce, see Commerce.	
Water buffaloes, see Buffaloes.	
Water carriers:	
dual-rate contract agreements for shippers, hearings.....	7474
	12302
revenue and traffic, quarterly.....	17337
transport statistics, 1957.....	2711
Water flooding, see Petroleum.	550
Water heaters, automatic, industry, outlook for 1959 and review of 1958.....	1430
Water-hyacinths, plants or seeds, permit transportation in interstate commerce into northern States, report.....	15843
Water-landing impact accelerations for 3 models of reentry capsules.....	17756
Water pollution:	
control act, amend—	
hearings.....	7484
reports.....	12567
views.....	7381
fresh water reservoirs by radioactive substances, plankton as indicator, USSR studies.....	8664
George Washington's river, film.....	14528
National Capital region, metropolitan statistical program, establish, staff study.....	1868
streams, abating by recovering waste oil from steel rolling mills.....	8189
watering holes on public lands, prohibit—	1572
law.....	9337
reports.....	15618
Water Pollution Control Advisory Board, establish, hearing.....	14231
	16078
	12567



# JANUARY-DECEMBER

	Entry		Entry
Water Pollution Control Office, establish, hearings.....	7484, 12567	Water supply—Continued	
Water power:		ground water—continued	
China, resources and conditions of hydro development.....	693	Santa Ynez River basin, appraisal.....	9125
publications, price list.....	4018	Indian homes, communities, etc., PHS to supply—	
Water rights:		hearings.....	8738
affirm laws of States west of 98th meridian, hearings.....	15947	law.....	12007
Federal officers, etc., to act in accordance with State laws, hearings.....	15947	reports.....	7578, 12117
Federal-State relations, hearings.....	15947	Lake Mend outlook.....	11447
recognize authority of States, hearings.....	15947	minimum potable, requirements in civil defense emergencies.....	1483
withdrawals or reservations of public lands not to affect water rights, hearings.....	15947	National Capital region, metropolitan statistical program, establish, staff study.....	1572
Water supply:		Pacific Northwest—	
algae content, identification, significance, etc., manual.....	17037	average discharge at selected gaging stations and change of storage in certain lakes and reservoirs, 1943-57.....	16455
announcement of water-resources reports.....	2657, 11196	current discharge at selected stations and storage in major reservoirs.....	2658, 11197
availability and future supply (address).....	9139	water resources summary.....	2661, 11200
Big Blue River apportionment, Kansas-Nebraska compact negotiation, consent of Congress, report.....	16149	plants and systems, maintenance and operation, Air Force manual.....	4218
Camp Irwin, Calif.....	7859	problems—	
Colorado River, watershed conditions affecting.....	2908	probability analysis application, Washington metropolitan area, staff report.....	3602
Columbia River basin, discharge at gaging stations, etc.....	2660, 11199	resources—	
communal, natural fluoride content.....	8196	development, policy and procedure hearings.....	15958
evaporation studies (series).....	6289	development in United States, hearings.....	12308
farm, replenishing underground supplies.....	15312	publications, price list.....	4018
Federal-State-private cooperative forecasts—		resources, development and coordination, select committee to study—	
Arizona.....	2940, 11484	conference, memorandum.....	12544
Colorado, Rio Grande, Platte and Arkansas River drainage basins.....	11485	hearing.....	6063
snow courses and soil moisture stations, list.....	5411	reports.....	6014, 7545
Idaho and Columbia basin.....	2941, 11490	run-off forecasts, Western U.S., 1959.....	8227
Montana and northern Wyoming.....	2942, 11491	Salt Fork and Prairie Dog Town Fork of Red River, study feasibility of developing—	
Nevada.....	11486	law.....	14022
Oregon.....	2943, 11492	reports.....	5837, 12495
Utah.....	2944, 11487	Scott Valley, Calif.....	3606
Washington State.....	11488	sources, losses, uses, etc., water and land problems.....	17082
Wyoming.....	11489	surface—	
forecasts, snow survey measurements summary for Wyoming.....	6936	Great Basin.....	9130
Great Lakes Basin compact, approval, report.....	7565	Pacific slope basins.....	6296
ground water—		United States, 1955.....	12771, 12775-777
artificial recharge bibliography.....	4932	United States, 1956.....	522-523, 1715, 14761
Big Blue River Basin above Crete, Nebr.....	7862	United States 1957.....	1717, 6299, 7863, 9130, 10194-195, 14763-765, 16473-475.
Clay County, Nebr.....	9126	USSR, industrial enterprises, damages caused by limitations, question of evaluating.....	1782
Hueco Bolson area, northeast of El Paso, Tex.....	520	water resources review—	
Khorat Plateau, Thailand, reconnaissance.....	521	annual summary, 1959.....	17493
Lodgepole Creek drainage basin.....	16472	monthly.....	2662, 11201
Medina County, Tex.....	14760	water supply papers.....	520-523, 1715-17, 3605-6, 4931-32, 6296-99, 7857-63, 9122-30, 10194-195, 12771-777, 14757-765, 16470-475 17494-495.
Memphis area.....	4929	water-timber management demonstration, Waynesville, N.C.....	10619
middle Big Wood River-Silver Creek area, Blaine County, Idaho.....	12774	water yield and reservoir storage, United States.....	3601
Niobrara River and Ponca Creek Basins.....	7860	western U.S., snow-run off forecasts, 1958.....	16938
replenishment by artificial means.....	4196	Water systems:	
Riverton irrigation project.....	14758	construction, contract awards.....	13566
San Joaquin Valley, Calif., storage capacity.....	14762	municipal, communities of 25,000 population and over, U.S., and territorial possessions, 1958.....	8195

# INDEX, 1959

Entry		Entry	
Water systems—Continued		Wave-canal antennas, <i>see</i> Antennas.	
national network, annual compilation of data on surface water quality, determinations throughout, U.S.	9471	Wave forms, electrical, low-energy spark discharges, measurement	8047
Water users associations, title to distribution systems of Federal reclamation projects upon repayment of costs, report	14435	Waveguide junctions, Y-or junction type circulator design	13510
Water vapor:		Waveguides, tapered, bent and loaded, electromagnetic wave propagation, USSR study	17581
permeability of matched barrier materials obtained by dry and wet methods	4909	Waves:	
working gas for reactor-heated rocket motors	15086	action, Barcelona, N.Y. harbor for light-draft vessels hydraulic model investigation	17389
Waterborne commerce, <i>see</i> Commerce.		effect on take-off resistance of seaplanes	13421
Waterborne foreign trade statistics	2376, 10907	forces on piling, large-scale tests, highest wave properties, theoretical development for computing	10088
Watercress, growing information	9608	oscillatory, damping by laminar boundary layers	17386
Waterflooding, <i>see</i> Petroleum.		run-up on roughened and permeable slopes, laboratory data	17387
Waterfowl, <i>see</i> Nene geese—Water birds.		surf statistics for coasts of U.S.	8969
Watersheds:		suspended sediment sampling in laboratory wave action	8968
conservation program, local leadership (address)	11618	variability and spectra for wind-generated gravity waves	17385
development, relation to general resource development (paper)	13594	<i>see also</i> Electric waves—Shock waves—Sound.	17388
local, State, Federal, projects	1174	Waves (radio), <i>see</i> Radio waves.	
management		Waxahachie Creek, Bardwell Reservoir, construction, report	6033
problems in northern Rocky Mountain region	12738	Waxes, Federal supply schedules	419, 4842, 12676, 14658
program on public domain (remarks)	17671	Waybill statistics, <i>see</i> Freight.	
research in Southwest, literature review	3588	Waynesville, N.C., water-timber management demonstration, 2d decade	10619
research in White Mountains of New Hampshire, problem analysis and program	12743	Ways and Means Committee, House:	
studies, Black Mesa research program in southwestern Colorado, report	17478	calendars	2461, 10993
program, fish and wildlife development opportunities (paper)	10588	hearings, etc.	1558-59, 3337, 4064, 5938-40, 7493, 8702-65, 9932-33, 12321-322, 14360-361, 15977, 17344.
protection, economic guide	5410	investigations and studies, matters within its jurisdiction, expenses, report	4023
protection and flood prevention act, amend to provide loans for other projects, report	15852	reports	4574-76, 4578, 4580, 4583, 4589, 4591-92, 5851-52, 7430, 8696, 9857-58, 9878, 14216-219, 14221, 14233-234, 14253-255, 14264, 14287, 14319, 15784-785, 15791, 15821, 15823, 15825-826, 15830-831, 15840-841, 15845, 15856-860, 15882, 15883, 15893-895, 15908, 15911-913.
tributary watershed activities, TVA list of reports and publications	15230	studies and investigations, authorize, report	5838
Waynesville water-timber management demonstration, 2d decade	10619	views	4550, 7430, 14319
<i>see also</i> names of rivers, etc.		We have declared war on obscene matter (address)	8177
Watertown Arsenal:		Weapons:	
General Thomas J. Rodman Laboratory, reports	8165, 9444-45	advanced systems, rare or unusual metals, selection and evaluation	15365
Ordnance Materials Research Office, OMRO publication	5367	air defense artillery automatic, crewman, MOS proficiency test aid	4288
Watertown Arsenal Laboratory:		airborne, naval ordnance, testbook	6850
memorandum report	1140	atomic—	
report	4004	accident hazards, precautions and procedures, technical information bulletin	198
Waterways, People's Republic of China, construction, improvement, etc.	1752	atomic and anti-atomic defense, excerpts from USSR publication	852
<i>see also</i> Inland waterways—also waterways by name.		civil defense protective measures and methods, USSR study	7936
Waterways Experiment Station:		fallout from nuclear tests—	
miscellaneous paper	392	hearings, additional copies, reports	15909, 16058
publications, list, supp.	6107	hearings, summary-analysis	14103
technical memorandums	6108		
technical reports	393, 6109, 7681, 8972-73, 12616-622, 14604-606, 16272-275, 17389.		
Watkins, Arthur V., nomination, hearing	12547		
Wattmeter-indicators, VSWR, CAA specification	234		
Waukegan Ill., commitment to maintain public wharf, transfer to Waukegan Port District, report	15901		
Waukegan Port District, Ill., land conveyance for public wharf, report	15901		

# JANUARY-DECEMBER

	Entry		Entry
<b>Weapons—Continued</b>		<b>Weather Bureau—Continued</b>	
atomic—continued		releases.....	2997, 11550
protecting populace from modern		report, 1958.....	9549
means of attack, selections		simplify administration relative to	
from USSR book.....	17348	rates of pay for certain du-	
standards, establishment by De-		ties, report.....	14498
fense Dept., hearing.....	14101	technical papers.....	1232,
worldwide effects.....	11719	2176, 4124, 7002-3, 8272,	13662
bacteriological, and means of de-		terminal forecasting reference	
fense.....	659, 835	manual.....	4125
Federal item identification guides		<b>Weather control:</b>	
for supply cataloging.....	14584	preventing storms and hail.....	812
fighter aircraft, Air Force manual.	3108	research by National Science Foun-	
nuclear—		dations, and others, hearing.....	15966
development control, excerpts		<b>Weather Control Advisory Commi-</b>	
and bibliography, collection.....	8888	tee, see Advisory Committee	
Geneva test ban negotiations,		on Weather Control.	
hearings.....	7611, 16202	<b>Weather forecasts:</b>	
principles, Navy training text.....	17799	agricultural meteorological services	
suspension of tests, international		of farms and machine-tractor	
agreement, report.....	7550	stations, USSR.....	871
tests, Soviet scientists concern		Arctic, long range prognoses, meth-	
over dangers upon animal and		od of compilation, USSR.....	16604
vegetable organism, articles.....	7914	Asiatic territory of USSR, gen-	
nuclear tests in space, Argus project—		eral characteristics, Apr. 1958.....	1920
hearing.....	9022	coastal storm warning facilities	
reports.....	9876, 9926	chart—	
systems, ground support equip-		Canadian border to Eureka,	
ment data.....	1359	Calif., 1958.....	2174
<b>Wearing apparel, see Clothing.</b>		Canadian border to Eureka,	
<b>Weather—</b>		Calif., 1959.....	15238
anticyclonic type in Bulgaria.....	829	Cape Hatteras to Brunswick,	
average, resume and outlook,		Ga., 1959.....	15239
monthly.....	2984, 11538	eastern Florida.....	15240
European territory of USSR and		Eastport, Me. to Montauk Point,	
western Siberia, expected gen-		N.Y.....	7001
eral characteristics, Apr.		Eureka to Point Conception,	
1958.....	1918	Calif., 1959.....	15241
forest fire season in western Ore-		Hawaiian Islands, 1958.....	13661
gon and western Washington,		Manasquan, N.J. to Cape Hat-	
1958.....	1691	teras and Chesapeake Bay,	
key to aviation weather reports.....	9547	1959.....	5460
local observations, use in predict-		Montauk Point, N.Y. to Manas-	
ing burning index in national		quan, N.J.....	5461
forests.....	3577	Morgan City, La. to Apalach-	
Louisiana weekly weather and crop		icola, Fla. 1958.....	2175
bulletin.....	2248, 10700	Morgan City, La. to Apalach-	
man's active influence on weather,		icola, Fla., 1959.....	15242
USSR studies.....	3718	Morgan City, La., to Brownsville,	
maps—		Tex., 1959.....	15243
daily weather maps.....	2986, 11539	Point Conception, Calif., to Mex-	
preparation and use at sea,		ican border, 1959.....	15244
guide to mariners.....	17151	Puerto Rico and Virgin Islands.....	9546
synoptic, Northern Hemisphere.....	2985	Communist China.....	9230
daily bulletins.....	2995, 11548	European territory of USSR and	
mariner's weather log.....	2089, 11541	western Siberia, Apr. 1958.....	1921
meteorological coordinate system		forecasting for 3 to 7 days, USSR	
in which earth's surface is co-		study.....	16581
ordinate surface.....	8343	forecasting geopotential heights of	
Mississippi weekly weather-crops		isobaric surfaces.....	3789
bulletins.....	2250, 10702	long-range, hydrodynamic meth-	
PAR-Scope, oscilloscope display		ods, USSR study.....	6600
for use with pulsed radars.....	17225	long-range forecasting.....	5409
publications, price list.....	6907	numerical, barotropic development	
radio aids.....	14779	of eddies.....	5596
review, monthly.....	2991, 11543	numerical forecasting of baric	
service A schedules, ATM man-		fields, balance equation and its	
ual.....	7688	use, Czechoslovakian studies.....	3723
service O schedules, ATM man-		numerical short-range on basis of	
ual.....	15369A	physics, development.....	3787
summaries, inventory guide.....	13675	services of St. Lawrence Seaway	
30% factor in general aviation		and Great Lakes.....	7003
aircraft accidents (address).....	11822A	short range pressure forecasting	
USSR reports by radio from Ant-		using high-speed computers,	
arctic, Jan. 27 and Feb. 16,		USSR.....	3648
1959.....	13270	short-range, USSR handbook.....	870
weather and crop bulletins.....	2992, 11545	small craft, gale and whole gale	
winds-aloft observation manual.....	13659	warning facilities chart, Great	
world records, 1941-50.....	15247	Lakes, Huron, Erie & Ontario,	
see also Climate—Meteorology—		1959.....	8271
Weather forecasts.		terminal forecasting reference man-	
<b>Weather Bureau:</b>		ual.....	4125
airway meteorological service, con-		troposphere, non-zonal shift in	
tractions used, manual.....	17238	heights of absolut topography,	
circulars.....	9544, 13659-660, 17151	short period forecast, USSR	
		studies.....	10332

# INDEX, 1959

	Entry		Entry
Weather forecasts—Continued		Welding—Continued	
use in calculating temperatures in		reactor materials, specification---	1393
soil, USSR study-----	5124	techniques, summary report-----	3160
use in predicting burning index		welding practice (USSR periodi-	
in national forests-----	3577	cal), abstracts-----	10874
USSR seas, Apr. 1958-----	1919	weldment-performance evaluation,	
Weather stations:		sheet-metal fracture-transition	
agreement with-----		studies-----	17803
Chile-----	4088	Weldments, <i>see</i> Welding.	
Colombia-----	10608	Welfare funds, employee benefit plans	
Ecuador-----	5432, 17113	disclosure act, new Labor Dept.	
Guadeloupe Island-----	17127	responsibilities (address)-----	7967
Netherlands-----	2152	Welfare work, <i>see</i> Public assist-	
Peru-----	5471	ance—Relief work—Social	
United Kingdom-----	8236	work and problems.	
decadal census-----		Well drilling:	
Arizona-----	10636	temperature effect dissipation in	
Colorado-----	17161	Arctic Alaska-----	14748
Florida-----	9548	errata-----	16464
Georgia-----	15245	test, Camp Irwin, Calif.-----	7859
Kentucky-----	15246	Wells, irrigation, filters and screens.	
index, change-----	17503	Wenatchee National Forest, general	
inventory guide, index-----	13675	information-----	503
parachute-deliverable buoy-type au-		Wenatchee River and Valley:	
tomatic station, development---	13505	biology of chinook and blueback	
storage-gage, precipitation data---	9545	salmon and steelhead-----	14674
Weathering, fuel-moisture-indicator		water quality studies in basin---	6195
sticks in Pacific Northwest,		Wenden, Ariz., manganese-ore-pur-	
effect on accuracy-----	17474	chasing depots operations-----	13363
Webster, Daniel, portrait unveiling,		West (U.S.):	
proceedings-----	5942	cotton gin equipment, 1957, west-	
Wedgeleaf ceanothus, <i>see</i> Ceanothus.		ern area-----	15264
Wedges, use with staff compass for		culture of oats in Western States---	9603
estimating basal area of tim-		fires in inactive coal deposits, con-	
ber-----	478	trol-----	16701
Weeds:		foreign trade group meeting, sum-	
control, etc., Soviet abstracts---	720, 3729,	mary of proceedings-----	453
3731, 5044, 6544, 13149, 13171,		instrument approach procedure	
14873.		charts and airport obstruction	
noxious-plant control on Federal		charts, dates of latest prints---	2408,
lands by States, report-----	16045	10937	
range, chemical control, handbook---	8313	Irrigation--	
Weekend warrior sense-----	5	field corn-----	98
Weekly:		improved methods-----	17064
NOTE.—For all publica-		quality of surface waters-----	9124
tions which begin with the		land use, changing patterns-----	10408
word "Weekly", <i>see</i> subject,		National forest timber sales, re-	
or name of department, etc.,		view-----	12548
issuing publication.		ocean shipping and shipbuilding	
Weeks, <i>see</i> names of special weeks.		industries, role of Government	
Weevils, pine root collar, description,		in promoting (address)-----	7264
control, etc-----	12727	phreatophyte research, Oct. 1958--	
<i>see also</i> names of weevils.		Mar. 1959-----	12766
Wei, Chung Ching, relief-----	13954,	seasonal farm work areas-----	6102
14183, 14375		selenium content of volcanic	
Wei River, China, sand dunes, topog-		rocks-----	12764A
raphy-----	14796	snow run-off forecasts, 1958-----	6938
Weights and measures:		snow run-off forecasts, 1959-----	8227
commercial specifications, toler-		soil erosion and its control under	
ances, and regulations, 1959		furrow irrigation-----	11623
correction sheets-----	17769	vegetable crop salt tolerance-----	15304
merchantable wood weight with		West Coast, <i>see</i> West (U.S.).	
bark from planted slash pine in		West Covina, Calif., population, spe-	
Carolina sandhills-----	12753	cial census-----	8451
metric system, eventual change to		West Indies:	
(address)-----	7260	climatological data-----	2993, 11546
prepackaged commodities, NBS		geologic names, index-----	17485
manual for checking-----	6803	Greater Antilles section, light list.	
pulpwood prices and measures in		lights and fog signals, list-----	3609,
Central States-----	479	7865, 14769, 16477	
uniformity of measurement, refine-		sailing directions-----	4938
ment and extension of stand-		species of Galatheidæ, parasitized	
ards-----	17771	by Rhizocephala of family	
volume-weight relationships, farm-		Peltogastridae-----	1108
ers stock peanuts stored in		West Point, <i>see</i> Military Academy,	
bulk-----	7008	West Point.	
weight comparison of several atti-		West	
tude controls for satellites---	3947	River, Townshend Dam and	
weight handling equipment-----	13672	Reservoir, spillway and outlet	
Welding:		works, hydraulic model investi-	
aluminum alloy electrode, military		gation-----	8972
standard-----	16247	West Virginia:	
automatic welding (USSR periodi-		agricultural conservation hand-	
cal), abstracts-----	10783	book-----	16
minutes of 7th annual AEC con-		boundary line compact with Vir-	
ference-----	4329	ginia, consent of Congress---	
		law-----	15696
		reports-----	8714, 16150



	Entry
West Virginia—Continued	
census of governments, 1957, State bulletin.....	13848
climatological data.....	2993, 11546
mineral industry, minerals year-book chapter.....	3855
100th anniversary of admission as State, commemorative medals—	
law.....	14039
reports.....	12408, 14238
postal service scheme.....	4008
precipitation data, hourly.....	2996, 11540
West Virginia Centennial Commission:	
Treasury Dept. to supply and sell commemorative medals—	
law.....	14039
reports.....	12408, 14238
Westerly, R.I.:	
beach erosion control study, engineer report—	
departmental edition.....	389
document edition.....	304
Westermann, Herbert, relief.....	5975
Western Europe, <i>see</i> Europe.	
Western Hemisphere, <i>see</i> Hemisphere, Western.	
Western pine beetles, <i>see</i> Beetles.	
Western redcedar, <i>see</i> Cedar.	
Western States, <i>see</i> West (U.S.)	
Western Utilization Research and Development Division:	
conference on eggs and poultry.....	15289
publications and patents, semiannual list.....	4158, 15295
Westinghouse Electric Corp.:	
Atomic Power Dept. research and development program—	
progress reports.....	193
1399, 5653, 8417, 17272	
Yankee critical experiments, hazards report.....	9669
Weston-Brooker Co., quarrying, crushed granite, methods and practices, Warren County, Ga.....	5187
Wetting agents:	
aqueous solutions of highly fluorinated acids and salts, use for wetting of low-energy solids.....	13519
aqueous solutions wetability, relation to surface constitution of low-energy solids.....	1128
WFTU, <i>see</i> World Federation of Trade Unions.	
Whaling:	
international convention, amendments to schedule.....	8245
regulation, convention, protocol, text.....	10607
Whaling Commission, <i>see</i> International Whaling Commission.	
What kind of conservation (address).....	116
What you should know about Alcohol and Tobacco Tax Division.....	6323
What's wrong with my trees? Oaks and laurels in California hard hit by leaf diseases.....	1674
Wheat:	
acreage allotment problems (address).....	68
acreage history, amend 1958 law, report.....	15813
Brazil's future as producer.....	12696
durum—	
exempt from acreage allotments, etc., in Tulalake area, hearing.....	6043
increase acreage allotments—	
hearings.....	6043, 7438
report.....	12445
Tulalake area, Calif., report.....	14438
exports, prospects.....	9618
futures, commitments of traders.....	10058

	Entry
Wheat—Continued	
gluten, addition to list of optional ingredients in bakery products.....	4867
hard red spring and durum, culture and varieties.....	13726
hard red winter, cooperative improvement program in Plains, summary.....	5559
imports in tropical Africa, outlook.....	4868
international agreement, pro-and-con, agreements concerning continuance (address).....	3251
international agreements act of 1949, extend to implement 1959 agreement—	
law.....	15701
reports.....	14240, 14484
marketing quotas and acreage allotments, defer proclamation for 1960 crops—	
law.....	7815
report.....	7570
marketing quotas and price supports, strengthen program—	
reports.....	7597, 8716
veto.....	9942
price stabilization program, hearings.....	7438
price supports and acreage allotments, drafts of alternative legislative changes.....	14546
price supports and marketing quotas program, hearings.....	7438
production, consumption, etc. (statement).....	1646
production, etc., Chinese methods of increasing.....	6358
program, 1960-61—	
reports.....	8648, 9833
views.....	8648
programs, proposals relating to industry, hearings.....	7600, 8879
situation in review, hearings.....	5902
stabilization act of 1959, hearings, stored—	
country elevators, costs of shrinkage and grade loss in Kansas.....	5478
protection from insects, evaluation of synergized pyrethrum.....	8318
shrinkage losses and grade changes, at Kansas bin sites.....	11571
surplus problem (talk).....	74
transportation, special economic assistance agreement with Yemen.....	17117
wheat situation.....	2227, 10682
winter, crop production.....	1259
Wheatgrasses, estimating utilization from counts of grazed plants.....	12752
Wheaton, Ill., population, special census.....	9710
Wheels:	
for hospital equipment, standard of trade.....	9683
substitutes, classification bulletin.....	17010
Whitaker, D. A., and others, relief.....	4513
White, J. B.:	
relief of heirs—	
hearing.....	10023
report.....	8796
White, W. Wilson, nomination, hearings.....	6071
White, Wallace H., papers in Library of Congress, register.....	5182
White cedar, <i>see</i> Cedar.	
White-collar workers, <i>see</i> Government official and employees.	
White fir, <i>see</i> Fir.	
White grubs, <i>see</i> June bugs.	

# INDEX, 1959

	Entry		Entry
White House Conference on Children and Youth, 1960, suggestions to organizations concerned with preparation	8273	Widows and widowers—Continued	
White Mountain Apache Indians, <i>see</i> Apache Indians.		<i>see also</i> Pensions.	
White Mountains, watershed management research, problem analysis and program	12743	Wild birds, <i>see</i> Birds.	
White oak, <i>see</i> Oak.		Wild land, <i>see</i> Land.	
White pine, <i>see</i> Pine.		Wildcat Canyon, wind patterns	7807
White pine blister rust, spread, life cycle, control, etc.	7813	Wilderness areas, National wilderness preservation act, hearings	7622, 12540
White-pine weevils, possibilities of breeding weevil-resistant white pine strains	7833	<i>see also</i> Arctic Wildlife Range.	
White River, Table Rock Dam, spillway and conduits, hydraulic model investigation	12617	Wilderness Preservation Council, <i>see</i> National Wilderness Preservation Council.	
White Sands National Monument, general information	3075	Wildlife:	
White spot disease of fish eggs and fry	3502	code of Federal regulations—	7726
Whitefish Public Library, progress through Northwest Montana Federation of Libraries under Library services act	1599	conservation—	
Whitehead reservoirs, fluvial sediment, Apr. 1955–Sept. 1956	515	land for use, conveyance to Kentucky, hearing	12539
Whitehead Watershed, fluvial sediment, Apr. 1955–Sept. 1956	515	planning, etc., on military reservations, report	12246
Whitley, Annie V., relief, 1976, 13966	14140	development opportunities in small watershed program (paper)	10588
Whitman National Monument, general information	8131	effects of insecticides, etc., Interior Dept. to continue studies—	
Whitney, Philip M., decoration tendered by France, accept	12364, 13973, 14189	hearings	317
	4494, 11942, 12356	law	15644
Whittom, Dorman W., relief	11942, 12356	reports	14488, 15816
WHO, <i>see</i> World Health Organization.		management activities by States, donate surplus property, hearings	17353
Who are they (communist leaders biographies)	14359	miscellaneous bills, hearings	317
Wholesale prices, <i>see</i> Prices.		Pittman-Robertson activities, 1958, survey	10125
Wholesale trade:		preservation, Alaska, hearing	14567
automotive parts, Federal wage-hour law applications	5457	publications, price list	9459
industries, earnings	8012	real property transfers under surplus property act, hearings	17353
nonsupervisory workers, straight-time hourly earnings—		special scientific reports, wildlife series	6202, 10141, 14676–677
departmental edition	16658	wildlife leaflets	3514, 7760–61, 9052–55, 14678–680, 16392
document edition	15763	wildlife review, abstracting service	2632, 11170
primary market price index, monthly report	2760, 11299	Wildlife Disease Laboratory, <i>see</i> National Wildlife Disease Laboratory.	
sales and inventories, monthly reports	2365, 10896	Wildlife refuges:	
sales contests	17844	address list of managers, 1959	9055
<i>see also</i> Stores— <i>also</i> names of commodities and industries.		land acquisition, earmark duck stamp proceeds, hearings	315
Whooping cough, death rates by age, color, and sex, 1941–51	5329	public use, 1958	9053
Why and how of rural zoning	1298	publications on wildlife refuges, 1959	9054
Why fruit trees fail to bear	1507	refuge leaflets	3507–12, 14667–672, 16386
Why we sell savings bonds	8210	<i>see also</i> names of refuges.	
Wibaux County, Mont., soil survey	4064	Wildlife Research Laboratory, quarterly progress reports	2626, 11164
Wichita project, Cheney division, construct, hearing	16206	Wilkes-Barre, Pa., electric facilities of area, map	16335
Wide-aperture direction finder, Wullenwever	3708	Willamette National Forest, general information	504
Wide-range amplifier for air shower detector, Japan	6403	Williams, James V., relief	8537
Widows and widowers:		Williams, Walter W.: U.S. flag to be flown at half-staff on occasion of his death—	14017
Comptrollers General widows annuities—		law	12431, 14225
law	11974	reports	12431, 14225
reports	8711, 9986	Williams, Yasuko K., <i>see</i> Kitano, Yasuko.	
estate tax marital deduction application to widow's allowance, report	15785	Williamson, W. Va.: flood control on Tug Fork, engineer report—	375
police, firemen, etc., of D.C.—		departmental edition	328
increase relief, etc., report	16164	Wilson, David N., relief	4510, 5979, 7300
make retirement and disability act applicable—		Wilson, Page A., relief	12353, 13978, 14134
hearings	8727	Wilson, Samuel, progenitor of symbol "Uncle Sam" recognize grave as national shrine, report	12127
report	8637	Wilson, Wls., railroad accident	17512
		Wilson's Creek Battlefield National Park, establish	14300
		Wilt diseases, <i>see</i> Oak wilt—Verticillium wilt.	
		Wind, <i>see</i> Winds.	

	Entry
Wind River and Valley : airborne radiometric reconnais- sance for uranium.....	5647 6298
Wind River Experimental Forest, Douglas fir plantation spacing tests.....	9106
Wind River project, non-Indian- owned lands, cancellation of irrigation charges, approve, re- port.....	14434
Wind River Reservation, lands, place in trust status, report.....	14443
Wind tunnels : development of 8-inch by 8-inch slotted tunnel for Mach num- bers up to 1.28.....	13414
electric-arc, preliminary develop- ment of electrodes.....	6793
flight buffet loads, predict.....	16854
Langley 8-foot transonic, with slot- ted test section, character- istics.....	13384
supersonic, three-dimensional flow expander to increase Mach number.....	1080
low-speed test of static stability of wingless jet VTOL transport model.....	17737
rotor behavior under extreme oper- ating conditions with descrip- tion of blade oscillations attributed to pitch-lag cou- pling.....	3921
transonic, speeds of jet control on 80° delta-wing missile.....	1049
Wind waves, <i>see</i> Waves.	
Windmills, reducing flow distortion, analysis.....	16796
Windows : casement, wood, standard of trade, double-hung wood units, standard of trade.....	9682 9680
plastic transparent and translucent covering, 1957, facts for in- dustry.....	15476
pole-type buildings, farm building plan.....	11642
ponderosa pine, standard of trade, errata.....	9679 17274
wood awning window-units and projected awning and station- ary sash units, standard of trade.....	9681
wood casement units, standard of trade, errata.....	11763
<i>see also</i> Storm windows.	
Winds : airplane measurements at high altitudes.....	9370
change with altitude, character- istics over eastern Atlantic shores, USSR study.....	5115
divergence and vortex, nomogram for determining, USSR.....	844
erodibility of farm fields, interpre- tation and limitation of esti- mates.....	4190
fields over Caspian Sea, construct- ing distribution charts, USSR study.....	6586
geostrophic— accuracy of mean monthly vec- tors as function of station net- work density.....	17221
coordinate system in which earth's surface is coordinate surface.....	8343
loads for missile operations, es- timating problem.....	1092
sharp-edge effect on blade peri- odic flapping angles and bend- ing moments of 2-blade rotor.....	16877

	Entry
Winds—Continued	
geostrophic—continued	
velocity data from 4-engine plane operating over north- western U.S.-Alaska route.....	5265
velocity data from turboprop transport operating over east- ern U.S., analysis.....	16881
wing flexibility effects on wing strains.....	6680
horizontal velocity divergence in atmosphere, USSR studies.....	5114
jet streams, USSR studies.....	1949, 1951, 3805, 12833
random disturbances, airplane re- sponse.....	5214
errata.....	9357
speeds— charts showing distribution in Baku-Apsheron Peninsula area, USSR study.....	6586
determining wind pressures in various U.S. areas.....	8096
transfer of angular momentum in atmosphere, USSR studies.....	6601
turbulence at high altitudes, char- acteristics.....	4263
upper, distribution statistical para- meters estimates.....	4124
vector winds and shear, upper-air climatology.....	7002
velocity, accuracy of measurements with automatic recorder M-12, USSR studies.....	1870
Wildcat Canyon, local patterns, forest fire control.....	7807
winds aloft observation manual.....	13659
<i>see also</i> Soil erosion.	
Windshields : conical and flat sting-mounted, ef- fect on zero-lift drag of flare- stabilized bluff body.....	16864
full-tempered glass panels, impact tests.....	4802
Wingard, Milo G., and wife, payment of relocation expenses to.....	5820, 7293, 7593
Wings (aircraft) : aerodynamics— control in presence of body at Mach number 1.61, component tests.....	1032
forces on wing-mounted external- store installation on airplane.....	16803
heat transfer to deflected trailing edge flap on delta fin in free flight at Mach numbers from 1.5 to 2.6.....	10486
heating data determined from free-flight rocket-model test to Mach number 3.64.....	16836
jet effects on exit of turbojet nacelle at free-stream Mach no. 1.39.....	6736
multiweb wing structures heated in free jet, tests at Mach 2, etc.....	1076-77
6-percent-thick symmetrical cir- cular-arc airfoil having 30-per- cent-chord trailing-edge flap at Mach number 6.9.....	13422
aluminum alloy, aerodynamic heat- ing determined from free flight investigation of rocket-pro- pelled model.....	1075, 2031
aspect ratio, hydrodynamic charac- teristics of two low-drag super- cavitating hydrofoils.....	9379
boundary layer effects in laminar hypersonic flows in pressure gradient.....	10498
chord, ratio to propeller diameter with addition of slots, effect on aerodynamic characteristics of vtol configurations.....	15074

# INDEX, 1959

Wings (aircraft)—Continued	Entry	Wings (aircraft)—Continued	Entry
complete—		delta—continued	
basic pressure measurements on		wing rocket model with and with-	
wing with cubic variations of		out external stores at Mach	
twist across span.....	10496	numbers from 0.8 to 1.36, low-	
laminar heat transfer rates on		lift drag and stability data....	13409
yawed infinite cylinders in		wing with airfoil sections, wave	
supersonic flow, theoretical in-		drag coefficients.....	16870
vestigation.....	13416	zero-lift rolling effectiveness and	
loads associated with spoilers at		drag of various surfaces,	
supersonic speeds.....	17729	spoiler, and jet controls on 80°	
spoiler controls, rolling effective-		missile at Mach numbers be-	
ness and drag at supersonic		tween 0.5 and 1.7.....	10482
speeds, flight investigation....	13417	diamond-shaped, subjected to con-	
delta—		stant heat input, effect of	
aerodynamic characteristics at		chordwise heat conduction on	
Mach number 4.04.....	15060	torsional stiffness.....	16883
angle of attack, surface pressure		dihedral, effects of vertical loca-	
at hypersonic speeds.....	9380	tions and horizontal tail on	
aspect-ratio-8.2 flap-type control		aerodynamic characteristics in	
hinge-moment etc., at Mach		pitch and sideslip.....	6735, 13430
numbers 0.72 to 1.96.....	1068	Douglas D-558-II research air-	
aspect ratios 2 and 4 oscillating		plane, wing-mounted external	
about midchord, measure-		stores effect on—	
ments at subsonic speeds of		lift and drag.....	16801
aerodynamic forces and mo-		longitudinal and lateral handling	
ments.....	1038	qualities.....	16802
cambered model at high subsonic		downwash and sidewash behind,	
speeds, static stability char-		estimation tables.....	8075
acteristics.....	1056	drag minimization in supersonic	
constant and varying thickness,		flow.....	10467
zero-lift wave drag.....	16811	fences effect on longitudinal char-	
Convair XF-92 A airplane at low		acteristics.....	15048
lift, pressure distributions at		finite aspect ratio, at subsonic and	
transonic speeds.....	1020	transonic speeds, discussion	
cruciform, swept back, with jet		based on wind-tunnel measure-	
controls, wind-tunnel investi-		ments.....	16807
gation at transonic speeds.....	1049	flexible, steady-state span loadings,	
delta-wing-fuselage model with		matrix method for calculating	
double slotted flap, etc., low-		in subsonic flight.....	10501
speed pressure-distribution in-		flight-determined pressure-	
vestigation.....	1063, 6744	distributions of Douglas D-558-2	
drag due to lift at Mach numbers		research airplane at Mach	
up to 2.0.....	13408	numbers up to 2.0.....	13406
evaluation of Levy method as		measurements of Douglas D-558-	
applied to vibrations.....	3932	2 research airplane at Mach	
experimental determination of		numbers up to 1.14.....	13410
frequency and amplitude effects		flow fields behind rectangular and	
of oscillation on roll-stability		triangular wing up to high	
derivatives for airplane model.		angles of attack.....	16908
experimental influence coefficients		fluid-dynamic properties of sharp-	
and vibration modes.....	8365	for finishing and inspection—	
flutter characteristics at super-		and blunt-nosed shapes at	
sonic speeds, methods for com-		Mach numbers from 16 to 24	
puting and comparison with		in helium flow.....	10494
experimental data.....	13442	flutter at very high speeds.....	15069
hinge-moment, characteristics for		4-percent, thick, unswept-wing-fuse-	
controls and balancing devices.		lage, transonic aerodynamic	
rolling and operating characteris-		and loads characteristics.....	13411
tics of bellows-actuated split-		gusts—	
flap aileron, free-flight meas-		flexibility effects on strains.....	6680
urements.....	1040	loads for missile operations, esti-	
Stein and Sanders method of cal-		mating problem.....	1092
culation of vibration.....	3931	helicopter performance at high tip-	
swept, and unswept, oscillating in		speed ratios, rotor theory.....	16910
yaw, lateral stability deriva-		helicopter rotor hubs, parasite-drag	
tives, frequency and amplitude		measurements.....	3930
effects.....	951	height effect on longitudinal char-	
thick effect of varying maximum		acteristics.....	13047
thickness upon aerodynamic		inboard plan-form modifications	
characteristics.....	16813	effects on lift, drag, longitudi-	
thin low-aspect ratio, leading-		nal stability of rocket-propeller	
edge modifications effects on		model.....	16855
aerodynamic characteristics....	16841	incompressible flutter characteris-	
wing-body configuration, effect of		tics.....	8071
inlet installation on zero-lift		jet transports, flight studies of prob-	
drag.....	1051	lems pertinent to—	
wing fighter minimum drag re-		high-speed operation.....	6773
ductions obtained from flight		low-speed operation.....	6771
tests of rocket-boosted models		leading edge—	
and equivalent bodies between		air inlets, pressure recovery at	
Mach numbers of 0.80 and		Mach number of 2.01, investi-	
1.64.....	16834	gation.....	15062



Entry		Entry	
<b>Wings (aircraft)—Continued</b>		<b>Wings (aircraft)—Continued</b>	
leading edge—continued		bulbous leading-edge contours	
bluntness effects on pressure distribution, skin friction, and heat transfer of bodies at hypersonic speeds, errata	8074	low- and high-speed data analysis	13387
sweep and surface inclination, effect on hypersonic flow field over blunt flat, plate	2053	circular cylinders at Mach number of 6.9 equilibrium temperatures and average laminar heat-transfer coefficients	13415
longitudinal—		configuration at transonic speeds, effect of negative dihedral of horizontal tail on stability	1052
characteristics at high lift	1035	effect of center-of-gravity position on response to longitudinal control in landing approaches, analytical study	1039
position effect on pressure characteristics at transonic speeds of 45° sweptback wing-fuselage model	3908	45°, symmetrical body indentations designed to reduce transonic zero-lift wave drag	3884
modified delta, ailerons and spoilers, effects of tail damping and wing-tail interference on rolling effectiveness	16845	45°, use of leading-edge area suction flap to improve high lift characteristics	959
oscillatory stability of bending coupled with pitch, effects of large wing-tip masses	3945	lateral stability at low lift, effects of yaw damper system at Mach nos. from 0.76 to 1.73	6747
pointed-tip, pressure studies and downwash and sidewash, analysis	13383	leading edges, influence of dihedral on heat transfer at high Mach numbers	6782
predicated static aeroelastic effects, propeller-wing-flap configurations, vertical and short-take-off and landing airplanes, estimating lift and drag characteristics	6794	of aspect ratio 3 and 2 horizontal tail positions, static lateral and directional stability and tail loads characteristics investigation at high subsonic speeds	17732
rectangular—		suction area boundary-layer control application to trailing-edge flaps	5218
in compressible flow, nonlinear airfoil theory	5302	tailless wing-body combinations, low amplitude damping-in-pitch characteristics	1043
errata	13438	tapered, aerodynamic characteristics at transonic speeds, wind tunnel investigation	1065
of low aspect ratio, flutter and divergence	16863	tapered, free flight flutter tests of rocket-propelled vehicles in transonic and low supersonic speed range	1054
with full-span, inboard half-span jet-augmented flap, aerodynamic characteristics	5274	35°, equipped with area suction ejector flap and leading-edge devices low-speed characteristics, flight tests	958
reversible heat addition theory, application to fluid dynamics	17745	time-vector determined lateral derivatives of fighter-type airplane with 3 different vertical tails	15055
rolling moments caused by wing-tail interference for missiles at supersonic speeds, estimating	952	wing-body juncture interference effects at transonic speeds	13386
rotating—		sweptback—	
blade bending moments and flapping angles, effect of flapping-hinge offset, wind tunnel investigation	6775	all-movable wing-tip control, effects on longitudinal stability at transonic speeds	6732
coupled natural frequencies and mode shapes of dynamic model, analytical determination	1083	and fuselage juncture with transonic area rule, investigation at lifting conditions of streamline contouring	16831
downwash from VTOL aircraft starts surface erosion of terrain	16893	canard configuration, longitudinal stability at transonic speeds	1042
linearized vortex theory analysis of ground effect	16886	downwash characteristics at transonic speeds	1029
rotors—		effects of geometric twist on aerodynamic loading at transonic speeds	1041
helicopter, effects of transition, landing approaches, etc., on bending and torsional moments	8089	effects of span, spanwise, and chordwise location on control effectiveness of spoilers at Mach numbers of 1.41 and 1.96	10476
lifting, induced velocities in vicinity charts	8083	formulas pertinent to calculation of flow-field effects at supersonic speeds due to thickness	8078
NACA 64, AO12 airfoil section lift coefficient characteristics at low Mach numbers	5270	40°, rocket-powered supersonic airplane configuration, flight investigation results	1024
sections, pressure distributions at transonic speeds over wedge and circular-arc airfoil	13448		
semispan—			
models at low-speed tests at angle of attack	8076		
with fan rotating in plane, wind-tunnel tests	17744		
spoilers, effect of aspect ratio and chordwise location	16840		
surface roughness effect on boundary-layer-transition, techniques			
sweep—			
effect on spoiler-type ailerons	1037		
load distribution due to projection of spoilers at subsonic and transonic speeds	17730		

# INDEX, 1959

Wings (aircraft)—Continued	Entry	Wings (aircraft)—Continued	Entry
sweepback—continued		sweepback—continued	
40°, with pylon-mounted stores, tested as semispan-cantilever wing and as full-span wing, flutter investigation.....	16838	low-lift drag at transonic and supersonic speeds, effects of some leading-edge modifications, section and plan-form variations, and vertical position.....	3913
45°, aerodynamic loads on external store adjacent.....	1048	low-speed investigation of blowing from nacelles mounted in-board and on upper surface of aspect-ratio-7.035° with fuselage and various tail arrangements.....	10492
45°, and body combinations at high angles of attack, subsonic wing loadings.....	5266	low-speed pressure-distribution investigation of spoiler and spoiler-slot-deflector.....	1053
45°, body-mounted lateral controls and speed brakes force test results.....	1062	oscillating in yaw, effects of ventral fins at 2 positions on lateral-stability derivatives, wind-tunnel investigation.....	10483
45°, of aspect ratio 2.8 with area suction applied to trailing-edge flaps and with leading-edge modifications.....	957	pitch and sideslip of wing and horizontal tail, basic-data presentation, $M=2.01$ .....	6729
45°, quadratic twist, pressure measurements at transonic speeds with spanwise twist variations.....	6767	rocket-powered mobil, lift, drag, longitudinal stability.....	16821
45°, several tail configurations, experimental study at high subsonic speeds.....	16844	rocket propeller model, effects of wing inboard plan-form on lift, drag, longitudinal stability.....	16855
45°, spoiler-slot-deflector and trailing-edge flap, low speed investigation of high-lift lateral control device.....	1061	slots and slats, longitudinal stability characteristics, exploratory investigation.....	6743
45°, steady-state aerodynamic loading characteristics at transonic speeds.....	16837	spoiler-slot-deflector configuration, investigation at high subsonic speeds of lateral control, etc.....	16848
45°, taper ratio and low horizontal tail position effects on longitudinal stability.....	1059	static longitudinal-stability characteristics.....	10487, 13420
45°, tapered, with spanwise twist variation, pressure measurements at transonic speeds.....	3944	30° and 40°, lateral control effectiveness of blowing laterally.....	17734
45°, transonic flutter characteristics, effects of center-of-gravity location.....	3916	35° jet flap in conjunction with plain flap with blowing boundary-layer control.....	5259
45°, untwisted, pressure distributions at transonic speeds with spanwise twist variations.....	1082	transonic flutter characteristics, wind-tunnel flutter experiments, results.....	5256, 5252
45°, wing-body combination, transonic wind tunnel investigation to determine effects of twist and camber with and without incidence, twist, and body indentation on aerodynamic characteristics.....	10479	swept-wing airplane, structural deformations in rough air, analysis of flight test measurements.....	2048
45°, wing location and geometric dihedral, effects on aerodynamic characteristics in pitch and sideslip.....	6733	thin—	
47°, aspect ratio 3.5, and taper ratio 0.2 effects of thickness ratio and thickened root sections at transonic speeds.....	1026	aspect ratio 3 and taper ratio 0.4 at subsonic and supersonic speeds, effect of leading-edge sweepback on lift, drag, pitching moment.....	958
52.5°, rocket-model investigation of hinge-moments on trailing-edge control.....	16858	construction strength, structural stability handbook.....	16926
fuselage combination, to determine static aerodynamic forces and moments at low speed on canard missile during simulated launching from midsemispan and wing-tip locations.....	10477	13-percent-thick model, leading-edge and trailing-edge area-suction flaps, wind-tunnel investigation.....	960
fuselage juncture for reducing drag at transonic speeds, designing method.....	1047	tip droop, effects on longitudinal characteristics of highly swept wing-body combinations at Mach numbers from 0.6 to 1.4.....	16761
horn-balanced control with unbalancing tab, transonic and supersonic characteristics.....	1069	tip stores, low speed measurements of tail contributions to rolling stability derivatives, etc., effects.....	1064
investigation of external-store configurations on model tailless airplane.....	1680	torsional stiffness, effects of cross-sectional shape, solidity, and distribution of heat transfer coefficient.....	5276
jet-transport model equipped with external-flow jet-augmented double slotted flap.....	6783	trailing-edge bluntness effects on lift, drag, and pitching-moment characteristics.....	15058
loads experienced in flights of research airplanes in angle-of-attack range of reduced stability.....	15059	transonic hinge-moment characteristics of low-aspect-ratio wing with flap-type control.....	10819
		trapezoidal—	
		aerodynamic characteristics at Mach number 4.04.....	15060

Entry	Entry
Wings (aircraft)—Continued	Wings (aircraft)—Continued
trapezoidal—continued	wing-body combinations—con.
flap-type trailing-edge controls,	zero-lift straight-wing-body-na-
aerodynamic characteristics at	celle configuration, supersonic
Mach numbers of 1.61 and	area-rule design and rocket-
2.01-----	propelled flight investigation. 16824
15063	
triangular	wing-flow measurements of longi-
aspects ratio 2, investigation	tudinal stability and control
of aerodynamically balanced	characteristics of supersonic
trailing-edge control surfaces. 6685	airplane configuration----- 13407
in combination with elliptic	wing-fuselage combinations—
cones-----	aspect ratios 1.86 and 20, super-
5220	sonic aerodynamic character-
wing and body combinations,	istics of low-drag aircraft con-
investigation of interference	figuration----- 10484
lift, drag, and pitching mo-	body contouring effect on longi-
ment-----	tudinal, characteristics----- 2022
1051A	delta wings with and without
wing-body combinations in side-	body indentations, effect on
slip, experimental investiga-	aerodynamic characteristics-- 16841
tion-----	division of loads, summary of
6687	data----- 16306
wing panels, etc., configurations,	experimental static aerodynamic
lift, drag, and static longitudi-	forces and moments at high
nal stability characteristics. 5221	subsonic speeds on missile
two-blade rotor, sharp-edge verti-	model during simulated launch-
cal gust effect on flapping an-	ing----- 10485
gles and bending moments. 16877	45° sweptback, Mach number 1.0,
two-dimensional supersonic wing	1.2, and 1.41 fuselage indenta-
at Mach 2.5 and 3.0, aerody-	tions effectiveness for reducing
namic effects of external com-	pressure drag----- 16843
burnstion in airstream----- 5263	lift properties and induced drag,
underwing heat addition, analysis	straight configuration, flight in-
and evaluation----- 8077	vestigation of supersonic area
unswept—	rule----- 16810
flaps, leading-edge effect on lift,	tapered wing with circular-arc
drag, and pitching moment of	sections and 40° sweptback,
airplane----- 10469	interference effect of wing on
leading-edge and trailing-edge	fuselage----- 16805
air-jet spoiler, zero-lift rolling	3-percent-thick delta, transonic
effectiveness----- 17733	loads characteristics----- 16851
longitudinal aerodynamic char-	zero-lift drag at Mach numbers
acteristics of model at tran-	from 1.4 to 3.8, free-flight
sonic speeds----- 16820	measurements----- 15067
untapered, 45° sweptback, aspect-	see also Airfoils.
ratio-4, transonic flutter char-	Winter wheat, see Wheat.
acteristics----- 6741	Wiping cloths, Federal supply sched-
varying stiffness, buffeting anal-	ule----- 9015
ysis----- 13441	Wire, see Electric wire and wiring—
wave drag prediction, applications	Wire rope.
of transonic and supersonic	Wire cloth:
area rules to prediction----- 16830	porous wall of transpiration-cooled
wing-body combinations—	afterburner, screeching-com-
delta effects of body camber and	bustion characteristics----- 984
indentation on longitudinal	taper-rolled, permeability varia-
characteristics----- 16823	tion----- 6720
design, having high life-to-drag	transpiration-cooled turbine blades
ratios, supersonic area rule	with porous shells, durabil-
and application----- 1031	ity evaluation----- 9364
external-store drag reduction at	Wire communication:
transonic and low supersonic	expenditures for wire and wireless
Mach numbers by application	diffusion, Poland----- 627
of Baldwin's moment of area	systems planning, Air Force manual
rule----- 6692	change----- 3102
flow fields at zero sideslip----- 1076	see also Telegraph—Telephone.
gap between, aerodynamic ef-	Wire fabric, see Wire cloth.
fects----- 15050	Wire mills, refined metal and copper
Influence of body cross-sectional	scrap operations----- 2832, 11374
shape on lifting efficiency at	Wire rope and strand, steel, produc-
supersonic speeds----- 1060	tion, 1957, facts for industry. 7210
low aspect ratio effects of sim-	Wiresonde, set AN/UMQ-4 organiza-
ulated skin wrinkles of sur-	tional maintenance----- 3149
face on aerodynamic charac-	Wireworms:
teristics----- 16744	and their control on irrigated
pressure and load distributions	lands----- 8309
over thin 45° swept-back	potato, toxicity of compounds to
highly tapered wing, etc. 1074	larvae, screening tests----- 11594
properties at supersonic speeds. 16759	Wisconsin:
transonic area rule applications	blister rust spread----- 17465
to asymmetric configurations. 10480	census of governments, 1957, State
transonic damping-in-pitch char-	bulletin----- 13849
acteristics----- 1085	Christmas tree harvest estimate,
unswept, effectiveness of all-	1937----- 3573
movable horizontal tail----- 15072	climatological data----- 2993, 11546
zero-lift drag, effect of moment-	
area-rule modifications----- 13388	

# INDEX, 1959

	Entry		Entry
Wisconsin—Continued		Women—Continued	
commercial forest land in counties	14728	State legislation affecting, conference report	9556
by forest type	7827	State legislation of special interest	8278
counties, forest areas	12654	status around world, conference report	13666
electric rate book	10090	women count (1960 decennial census)	1474
grade A milk marketing by manufacturing co-ops	13563	workers—	
Indians on Federal reservations, digest	14725	facts	1234, 2998, 11551, 13664
mixed oak farm woodlands, measures to improve	14723	in changing world (address)	9562
northern, direct seeding and planting of balsam fir	11549	1958 handbook, revised page	2178
precipitation data, hourly	14729	Women's Army Auxiliary Corps:	
sawtimber log grades	7684	pay and retirement credit for service—	
southern, credit control in retail farm supply cooperatives	7829	hearing	5920
southwestern, tramping by livestock reduces infiltration rate of soil in oak and pine woods	17461	law	12020
timber—	17462	reports	8657, 12469
defect variations, etc.	12622	Women's Bureau:	
volume	6996	bulletins	1233,
Wister Dam, soils design construction and performance observations review	4672	2178, 5466-67, 8274, 13663,	
Without resort to reason (address)	6292	17162-164, 17893-894.	
Wojczul, Stanislaw, relief	11905	joint conference with National Consumers League on State labor laws affecting women, report of proceedings	9556
Wolf Creek, test wells	5968, 8598	leaflets	1234, 9553-54, 13664
Wolfram, Maria, relief	9562	pamphlets	5469, 13665
Womanpower in changing world (address)		publications, list	9553
Women:		releases	2999, 11552
American—		Women's clothing, see Clothing.	
plays finest role of wife and mother (address)	11613	Wong, Maria, see Wong Bick Quon.	
radio and television occupations, membership, analysis	9555	Wong Bick Quon, relief	7506, 8574, 11889
annual budget for employed women in Pennsylvania	10638	Wong Gar Wah, relief	12347
careers in—		Wong Gim Bong, relief	16010
retailing	17895	Wong Sue Chee, relief	14401
science	1969	Wood:	
college graduates—		air seasoning reduces charcoal production time	14732
class of 1957, first jobs	8274	American woods	9087, 14710
job experiences	9554	nail-withdrawal resistance	6255
Congress, 86th (biographies)	9563	publication, price list	6906
employment status, past and present, census count	1474	chemical utilization, Forest Products Laboratory, research program	6251
equal rights amendment, report	8814	chemistry, publications list	10170
executives, what it takes to be tops (address)	8278	Colombian forests, pulping and papermaking experiments	486
family and property law—		combustion and its control, theories	6252
Maryland	9550	decay—	
North Carolina	10637	factors that influence and comparative resistance	4902
Oregon	9551	hazard, resistance-type wood moisture meter to appraise	14717
female proportion of population, increase and future trends, census count	1474	dimensional stabilization seminar, report	9100
home demonstration organization members, general characteristics	16317	doors, portable equipment for measuring twist	14718
legal status in United States—		drying, internal stresses, method of calculating	4910
Delaware	17162	enzymatic degradation, literature review	485
Hawaii	17164	foreign wood series	6247, 7817
Maryland	17163	Government-owned inventions available for license	11871
Texas	1233	growth, etc., publications list	10169
Utah	17893	kiln-dried, casehardening tests	9101
Navy, opportunities to train and serve	16974	powder-post beetle damage, how to prevent	17195
occupations, etc., publications, price list	9460	preservation, publications list	9096
older—		products—	
Learn to Earn Opportunities Forum for Mature Women, report	9558	labor turnover rates per 100 employees	7991
St. Petersburg Earning Opportunities Forum, report	9559	prices and price indexes, 1957—	896
State labor laws summary—		publications, list	13552
Alaska	13667	publications for furniture manufacturers, woodworkers and teachers of wood shop practice, list	3561
Hawaii	13668	quality of Mississippi's pine resources	7818
Kentucky	9552	rapid measurement of rate of decay of free vibrations, method	17457
Oregon	9560-61		
Pennsylvania	8277		
Rhode Island	2179		



# JANUARY-DECEMBER

	Entry		Entry
Wood—Continued		Woody plants, <i>see</i> Plants.	
shipbuilding—		Wool:	
basic technology manual, errata	6920	consumption on woolen and worsted	
techniques and practices applic-		system, facts for industry	2371,
able to preservation and stor-			9714, 10902
age, manual, errata	6929	fibers, stocks, facts for industry	2372,
stresses during drying	7815		10903
thermal insulation made of wood-		foreign agriculture circulars	2643, 11182
base materials, application and		futures—	
use in houses	6246	commitments of traders	10959
treated, gluing	12729	trading and open contracts	2428,
use—			10961
industries, British Honduras	16489	household furnishings, homemak-	
manufacturing firms, Minneap-		ers use and appraisal	101
olis and St. Paul	17460	industry protection in world trade	
new construction, protect from		(address)	7258
attack by subterranean term-		manufactures, U.S. foreign trade,	
mites, recommendations	6268	1920-57, raw wool content	11585
<i>see also</i> Hardwoods—Lumber—		market news, weekly summary and	
Softwoods—Veneer— <i>also</i> arti-		statistics	10066
cles—manufactured from		marketing channels and division	
wood.		of consumer's dollar	11565
Wood fabricated materials, aircraft		production and value, 1958	5507
components, publications, list	9103	shorn, production, 1959	13702
Wood finishing publications, list	482,	statistics and related data	9620
	9095	top from Uruguay, countervailing	
Wood lots, southwest Arkansas'		duty, hearing	4739
owners	16450	wool situation	2228, 10683
Wood moldings, <i>see</i> Moldings.		wools for carpets and papermakers'	
Wood preservation, <i>see</i> Wood.		felts, Tariff Comm. investiga-	
Wood preservatives:		tion	17134
comparison—		Woolen cloth, <i>see</i> Wool.	
Mississippi post study	9097	Woolens:	
stake tests, 1959 progress report	10174	imported wool fabric in clothing,	
marine, toxicity screening test		consumer appraisal	5483
against marine borers	16992	manufacturing industry, outlook	
<i>see also</i> Creosote.		for 1959 and review of 1958	1440
Wood pulp:		woven goods, facts for industry	2372,
balsam fir and jack pine, ground-			9724, 10903
wood pulping	6254	Woonsocket, R.I.:	
beech pulping processes	1671	aircraft accident report	15502
Central States—		flood control project in Blackstone	
prices and measures	479	River basin engineer report—	
pulpwood harvest, 1957	475	departmental edition	1601
chips, production from slabs and		document edition	1562
edgings at pine sawmills, econo-		Work:	
mics	4110	effects of workers' differences	4247
eucalyptus, pulping and papermak-		experience in 1958	11804
ing experiments	1682	holders, classification bulletin	6887
experiments on groundwood and		job categories, airman performance	
sulfite pulping of subalpine fir	1681	on general aptitude test bat-	
groundwood pulping experiments		tery and classification battery	
on insignis pine	6249	AC-2A	11684
industry, growth in South	16451	organization, work assignments	4238-39
list of reference works	16431	simplification—	
northern whitecedar and tamarack,		appraisal of methods	4244
pulping processes	1684	development and application of	
production—		better methods (workshop)	4246
Central States	10166	improvement of methods	4245
facts for industry, 1958	4359, 11811	training techniques and mate-	
Lake States, 1958	7831	rials	17687
round pulpwood in 125 Tennessee		use in cutting paperwork	15183
counties, 1958	15227	work exchange and cooperative	
round pulpwood trends in Ten-		movements in Thai Binh Pro-	
nessee Valley, 1947-58	15228	vince, North Vietnam, during	
southern production, 1958	16449	1958	6362
southern pulping capacity ex-		youth's transition from school,	
pands despite drop	500	study of school leaver	
southern States, 1957	1698	(paper)	13300
pulping of mesquite, manzanita,		<i>see also</i> Employment—Occupations.	
and snowbrush	10175	Work experience in education, <i>see</i>	
<i>see also</i> Paper.		Secondary education.	
Woodlands <i>see</i> Forests and forestry.		Work force, <i>see</i> Labor.	
Woods, Carl S., and wife, relief	9964,	Work injuries, <i>see</i> Injuries.	
	13913, 14124	Work stoppages, <i>see</i> Strikes and Lock-	
Woods, Nathaniel H., relief of estate	12089,	outs.	
	16016	Workers, <i>see</i> Child labor—Farm labor—	
Woods, <i>see</i> Forests and forestry—		Government officials and	
Wood.		employees—Labor—Plantation	
Woods Hole Oceanographic Institu-		workers—Women—Youth.	
tion, observations, 1957	9048	Working for U.S.A.	4388
Woodworkers, publications for wood-		Working papers, Census Bureau	17286
workers and teachers of wood		Working together for 4-H in Nation	109
shop practice, list	3561		

# INDEX, 1959

	Entry		Entry
Working with people, examples of U.S. technical assistance-----	4068	Wounded, evacuation, design and construction of ambulance train for operation on broad-gauge foreign railroads-----	6979
Working women, <i>see</i> Women.		Wounds:	
Workmen's compensation, <i>see</i> Employer's liability and workmen's compensation.		small intestines, course during radiation disease, USSR study-----	3679
Works of art, <i>see</i> Art.		soft tissues, surgical treatment in radiation sickness, USSR study-----	6521
Works of Ukrainian Hydrometeorological Scientific Research Institute (USSR periodical):		Woven goods, <i>see</i> Textiles.	
review of poor quality of research and scientific writing in 13th and 14th issues, 1958, of Trudy Ukrnigmi-----	17570	Wowchuk, Ivan, consultation with staff of Un-American Activities Committee-----	15974
Workshops:		Wright Air Development Center:	
approach (address)-----	13453	technical notes-----	155-156, 3121-23, 4269-70, 5603-5, 8369-70, 9642-43, 11683-685, 15357-358, 17232-233.
forms improvement, Interagency, Records Administration Conference-----	13454	technical reports-----	1363-65, 3124-29, 4271-78, 5606-9, 7121-24, 8371-73, 9644-47, 11686-693, 13777-779, 15359-368, 17234-237.
national marketing service, 1938, adjusting to changing conditions-----	13678	Wright Brothers Day:	
paperwork management, Interagency Records Administration Conference-----	13453	designate-----	
records disposition, Interagency Records Administration Conference-----	9389	law-----	15669
school and college personnel work, 1959-60, list-----	16254	report-----	15884
Workweek, <i>see</i> Hours of labor.		Wright Brothers National Memorial: revise boundaries-----	
World, <i>see</i> Earth.		law-----	11960
World affairs, <i>see</i> International relations.		reports-----	5901, 8861
World Federation of Trade Unions, directory-----	9146	Writing:	
World Health Organization, United States participation, etc., report-----	8891	government publications, list-----	15158
World knowledge (Chinese periodical):		guide for naval officers-----	6855
articles-----	6374	improve your writing-----	3137
World list of future international meetings-----	11319-20	modern letter writing guide for families of overseas Chinese-----	9234
World motor vehicle registration, 1958-59-----	15456	PACAF basic bibliographies-----	7113
World peace, <i>see</i> Peace.		research and scientific, review of poor quality in 13th and 14th issues, 1958, of Trudy Ukrnigmi-----	17570
World strength of communist party organizations-----	8253	<i>see also</i> Calligraphers.	
World trade, <i>see</i> Commerce.		WS series-----	2243, 10697
World War, 1939-45:		Wuhan Municipal People's Council, Hupeh Province, 1957 work, and future tasks (address)-----	583
Berlin's unique position in international affairs since World War II, chronology, Army pamphlet-----	4295	Wusih, China, exceeds 1st 5-year plan-----	6368
military cemeteries and memorials-----	3130	Wu-ting Ho Valley: geomorphological problems-----	10223
neurosurgery-----	1373	natural resources-----	14795
Soviet public health during war years-----	1941	Wyandotte, Mich., annex U.S. lands, report-----	12222
United States Army in World War II-- 6644, 8025, 13307, 16682, 17673		Wyoming:	
Unknown American, word- and picture-stories-----	7133	Billings, Mont., area, Indians on Federal reservations, basic information digest-----	1150
veterans, <i>see</i> in main alphabet, Veterans.		census of governments, 1957, State bulletin-----	13850
<i>see also</i> Pensions.		climatic summary, 1931-52, correction sheet-----	1230
World War II, <i>see</i> World War 1939-45.		climatological data-----	11546
World weather records, 1941-50-----	15247	electric rate book by GSA to Cheyenne, hearing-----	6133
World's first nuclear-powered merchant ship-----	10100	land conveyance by GSA to Cheyenne, hearing-----	12539
World's most mechanized post office-----	8173	mineral industry, minerals year-book chapter-----	3856
Worldwide effects of atomic weapons project sunblush-----	11719	precipitation data, hourly-- 2996, 11549	
Worms, publications, price list-----	10560	radioactive limonite, preliminary study-----	3595
<i>see also</i> Polyclads.		snow survey measurements, 1910-58-----	6936
Worsted:		snow surveys and water supply forecasts-----	2942, 11491, 11489
manufacturing industry, outlook for 1959 and review of 1958-----	1440		
woven goods, facts for industry-- 9724, 1093.	2372,		
Worthington Oil Refiners, Inc., relief-----	12088		

## X

X-disease, <i>see</i> Hyperkeratosis.	
X-ray apparatus, dental, modification, Air Force pamphlet-----	5593
X-ray laboratories, signs of certain functional deviations found in workers, USSR study-----	10369

# JANUARY-DECEMBER

	Entry	Y	Entry
X-ray photography, <i>see</i> Radiography.		Y-or junction-type circulator-----	13510
X-rays:		YAE, <i>see</i> Yankee Atomic Electric Co.	
aluminum alloy electrode welds, military standard-----	16247	Yagrumo hembra, neutral sulfite semi-chemical pulping of <i>Cecropia peltata</i> from Puerto Rico-----	1683
attenuation coefficients, from 10 kev to 100 Mev-----	17768	Yakima Indians:	
blood--		allottees and descendants, preparation of roll, amend act, hearings-----	9912
changes due to action, USSR studies-----	6445	transfer property for burial ground-----	
luminescent microscopy in irradiation, USSR study-----	13253	law-----	11959
reaction after repeated irradiation, USSR experiments-----	821	reports-----	7386, 8839
serum protein changes against background of varied nutrition-----	12960	Yakima project:	
change in latent period of flexor reflex of shin in rabbits following general irradiation with 10 R dose, USSR studies-----	7040	Kittitas division, construction cost, reimbursement, reduce, report-----	12497
chemical protection, USSR studies-----	5103	storage division, construction, apportion costs-----	
diffraction powder patterns-----	6800	law-----	14057
effects--		reports-----	7389, 12498
brain development, USSR study-----	6612	Yakima Reservation, membership roll of Indians, amend act, hearings-----	9912
changes in composition of blood and bone marrow, USSR study-----	13251	Yakut Autonomous Soviet Socialist Republic:	
content and metabolism of iron in bone marrow, USSR study-----	12968	development of industry and transportation, problems-----	9203
restoration of serum proteins in dogs after hemorrhage, USSR study-----	6591	diamond crystal enclosed in kimberlite rocks-----	1801
fluorescent spectrography--		Kimberlite pipes chrysolites as precious stones for jewelry industry-----	1790
probe-design and applications-----	16724	Yalobusha County, Miss., conveyance of property-----	12114, 14415, 15068
solution techniques-----	16721	Yangtze River and Valley:	
functional deviations found in workers of roentgen institutions, USSR study-----	10369	climatic types of floods and droughts-----	13047
irradiation--		sailing directions-----	17500
dogs in area of abdomen, effect on activity of salivary glands, USSR study-----	823	Yankee Atomic Electric Co. reactor research and development program--	
influence on level of glucose and lactic acid in blood flowing into and out of brain, USSR study-----	13259	critical experiments hazards report-----	9669
injury to medical personnel during diagnostic procedures, USSR study-----	12938	progress reports-----	193, 1399, 5653, 8417, 17272
irradiation induced illness, burn shock course during initial phase, USSR study-----	6520	Yankee Atomic Electric Plant, <i>see</i> Nuclear reactor power plants.	
pregnant animals, effects on peripheral blood, USSR study-----	822	Yankee power reactors, <i>see</i> Reactors (atomic).	
low doses effect on penetrability of capillary walls in thyrotoxicosis, USSR study-----	6613	Yard service performance-----	2722, 11261
luminescence of DNA isolated from tissues of irradiated animals, USSR study-----	13256	Yarding, <i>see</i> Lumbering.	
protection, USSR study-----	13127	Yards and Docks Bureau:	
spectroscopy method for electronic band structure of solids-----	11063	BuDocks technical digests-----	3000, 11553
sublethal doses, effects on nucleoprotein complexes, Ukrainian SSR study-----	5141	index, Mar. 1959-Dec. 1958-----	9564
therapy of tumors, biological anti-radiation protection-----	625	technical publication NAVDOCKS TP (series)-----	2180-83, 10640, 13669-672, 15248, 17896-898.
tuberculosis, case finding activities, 1956-----	4028	Yarn:	
use of roentgen units in sanitary evaluation of food products, USSR studies-----	3721	spun silk, suspension of duty-----	
working conditions of personnel in roentgenological rooms, USSR study-----	12922	law-----	14082
<i>see also</i> Fluoroscopy.		reports-----	14253, 14522
Xanthogenate, potassium ethyl, effect of gases on density of layer on surface of gold, silver, copper, and their alloys by means of radioactive isotopes, USSR-----	1744	Yavapai County, Ariz., block-caving mining methods and costs, Bagdad mine-----	8030
Xystodesmid millepeds, <i>see</i> Millepeds.		Yaw:	
Xystodesmidae, <i>see</i> Brachioria.		damper system, effects on lateral stability at low lift of 45° swept-wing rocket-propelled model-----	6747
		damping, effects on airplane motions and vertical tail loads in turbulent air-----	5285
		effect on heat transfer to circular cylinders in hypersonic flow-----	16750
		low amplitude, damping, fuselage-tail configuration, wind tunnel investigation at Mach numbers up to 1.10-----	16846
		Yearbooks:	
		agriculture, 1950-----	
		departmental edition-----	15308
		document edition-----	15762

Do not order from index; see indicated entry

529

# INDEX, 1959

	Entry		Entry
Yearbooks—Continued		Youth—Continued	
Albanian statistical, 1958, translation and glossary	16536	fitness and the future	17029
Czechoslovak statistical, 1958, translation and glossary	12891	fitness, community project suggestions	8178
German Democratic Republic statistical, 1957, translation and glossary	17513	future in agriculture (address)	5523
Hungarian statistical yearbook, 1956, translation and glossary	14794	health characteristics, statistics, July 1957-June 1958	17829
minerals, 1957, area reports—		hypertension at young age, USSR study	6608
departmental edition	5202	national stay-in-school campaign, work-experience programs	16654
document edition	4412	placement workers, self-training unit on child-labor laws	16652
Yeast, Federal supply schedules	3486, 12675	program is proving ground for Dairymen's League Cooperative Association's future	6113
Yee You Gee, relief	9971, 12069, 13918	public welfare services, principles and language for drafting legislation	1477
Yellow birch, <i>see</i> Birch		publications concerning, price list—	10562
Yellow Creek, watershed, forest inventory statistics	17136	senior 4-H programs, broader horizons, guide for extension workers	9616
Yellow fever, epidemiology, clinical manifestations, and prophylaxis	830	summer job programs for school youth, suggestions for community groups	7972
Yellow poplar, <i>see</i> Tuliptree		training and employment—	
Yellow River and Valley: floodplain, China, soil geography	12885	hearings	8907
vegetation distribution in valley	12840	report	12454
Yellowfin tuna, <i>see</i> Tuna fish		views	12454
Yellowpoplar, <i>see</i> Tuliptree		transition from school to work, study of school leaver (paper)	13300
Yellowstone National Park: general information	13495	Vietnam Labor-Youth League, resolution of 6th congress of central executive committee	12832
Madison River system, fishery management studies	14675	workers, problems of individual (address)	16650
Yellowtail flounder, <i>see</i> Flounders		<i>see also</i> 4-H clubs	
Yemen, special economic assistance agreement	17117	Youth Conservation Commission: establish—	
Yeshayahu, Briszk Yom Tov, <i>see</i> Briszk, Yom Tov Yeshayahu		hearings	8907
Yield tables, <i>see</i> Volume and yield tables		report	12454
Yocona River, flood, control conduit, Enid Dam, prototype hydraulic tests	12618	views	12454
Yokosuka, Japan, atmospheric radioactivity levels 1954-58	10540	Youth Conservation Corps: establish—	
Yoon, Ho Rim, <i>see</i> Holzman, Ho Rim Yoon		hearings	8907
York, Herbert F., nomination, hearings	7606	report	12454
Yorktown, Va.: housing facility, Coast Guard to accept and operate—		views	12454
law	14007	Youth Fitness, President's Council on, <i>see</i> President's Council on Youth Fitness	
reports	12171, 12451	Yttrium, extraction from euxenite carbonate residue, procedures	17712
Yosemite National Park: general information	9420-21	Yttrium isotopes: radioactive, excretion, effect of complex-formers, USSR studies	5106
Tioga's ghosts	9088	Y-91—	
You and United Nations	15199	acute intoxication, efficacy of complexones in causal treatment, USSR study	14943
You and your passport	6942	early changes in dogs' skeletons following irradiation, USSR study	14924
Young jack crevasses (caranx species) off southeastern Atlantic Coast of United States	10129	Yb-169, nuclear energy levels and metastable states	15403
Young people, <i>see</i> Youth		Yuey, Hoo W., relief	14156
Young workers, <i>see</i> Youth		Yugoslavia: agricultural economy, notes	16396
Youngstown, Ohio, electric facilities of area, map	16336	atomic, biological and chemical defense studies	5132
Your Army career, Army enlisted management program	7131	economic aid, special project expenditures, agreement	5424
Your Federal income tax	1728	economic cooperation, technical assistance projects, agreement	5422-23
Your gifted child	1478	military assistance on grant basis termination, etc., agreement	17860
Your home town's future (address)	273	myth of "Titolsm" consultation by Un-American Activities Committee with Alex N. Dragnich	322
Youth: activities, PACAF basic bibliographies	5601	purchase of military equipment, materials, and services, agreement	17861
conservation activities for young people	9094		
effect of obscene matter sent through mails (addresses)	17018-19, 17028		
employment—			
in 1958	9707		
list of publications	5165		
opportunities during recession and recovery	9314		
work and labor laws, facts	17666		



	Entry		Entry
Yugoslavia—Continued		Zinc—Continued	
scientific research, biological		minerals yearbook chapters...	946, 17718
agents in war.....	5029	open pit mining, USSR.....	5144
selected political and sociological		ore, mining and milling methods,	
translations.....	1758,	Piquette Mining and Milling	
3650, 3656, 4970, 4985.		Co., Tennyson, Wis.....	6648
selected sociological transitions...	6351,	pigments, production, etc., 1958...	13352
6375, 12831, 17560.		preliminary report.....	6653
sending gift packages to.....	14684	production from domestic mines	
studies, chemical combat agents, use		stabilizing, hearings.....	3330
at sea and measures for protec-		research program of Mines	
tion.....	3711	Bureau.....	15010, 15016
surplus agricultural commodities,		rolled, production, etc., 1958.....	13342
agreements.....	4095, 6961,	secondary, production, etc., 1958...	13337
work of atomic, biological, and	15218	secondary, scrap consumers re-	
chemical warfare officers in		ports.....	2833, 14375
process of planning naval com-		Zinc oxide, report, monthly.....	2842, 11385
bat operations, opium.....	1863	Zinc salts:	
Yung Chul Kim, <i>see</i> Harkins, Wil-		production, etc., 1958.....	13352
liam J.		preliminary report.....	6653
Yung Shik Kim, <i>see</i> Harkins,		Zion National Park, boundary revi-	
Thomas L.		sion, report.....	12499
Yurok Redwood Experimental Forest,		Zircon:	
research, etc., guide.....	3564	concentrates, disposal from na-	
		tional stockpile by GSA, re-	
		ports.....	12178, 14538
		distribution etc., in southeastern	
		Atlantic States, zirconium and	
		hafnium content.....	514
		Zirconia, <i>see</i> Zirconium oxide.	
		Zirconium:	
		alloys, high strength, preliminary	
		study.....	3163
		deformation modes at 77°K, 300°K,	
		575°K, and 1075°K.....	17257
		from crucible refractories, effect on	
		complex heat-resistant alloy...	8073
		hafnium and zirconium in southern	
		Atlantic States.....	514
		hafnium separation.....	16723
		mineral market report.....	938
		minerals yearbook chapter.....	13377
		Mines Bureau research program,	
		1960.....	13324
		utilization, review and summary of	
		published data.....	7141
		zircaloy-clad uranium fuel elements	
		with integral end seals, develop-	
		ment and properties.....	15410
		Zirconium oxide, zirconia, its crystal-	
		lographic polymorphism and	
		high temperature potentials...	17237
		Zizicas, George A., relief.....	7513
		Zodiacal light, Soviet IGY studies...	5088
		Zoning farm areas, how zoning tools	
		are used.....	1298
		Zoology:	
		general and specialized, Soviet ab-	
		stracts.....	1847,
		1849, 3733 5085, 5092,	6522,
		6564, 10323, 13041, 13065, 13103,	
		13224, 13235, 14872, 14898,	
		16565, 17627.	
		medical and veterinary, index-	
		catalogue.....	11605
		Zooparasitology, Soviet abstracts...	1825,
		5055, 6464, 6571, 10275, 10307,	
		10310, 13044 13053, 13074,	
		13093, 13135, 13158, 17593,	
		17599.	

# **MONTHLY CATALOG**



**OF UNITED STATES  
GOVERNMENT PUBLICATIONS**

---

**JANUARY-DECEMBER 1959**

**Nos. 768-779**

---

**Entries 1-17898**

**Including Annual Cumulative Index**

**Issued by the SUPERINTENDENT OF DOCUMENTS**

---

**UNITED STATES GOVERNMENT PRINTING OFFICE, WASHINGTON, 25, D.C. : 1959**

To Superintendent of Documents,  
Government Printing Office,  
Washington 25, D. C.

**For Use of Supt. of Docs.**

**Enclosed**

To be mailed  
later

### Subscriptions

### Refund

### Coupon refund

### Postage

For additional space use other side.

Total \$

For PROMPT, ACCURATE SHIPMENT please fill in the following label—Please PRINT or typewrite.

**PENALTY FOR PRIVATE USE TO AVOID  
PAYMENT OF POSTAGE, \$300  
(GPO)**

OFFICIAL BUSINESS

**RETURN AFTER FIVE DAYS**

**Street Address** \_\_\_\_\_

City, Zone No., and State \_\_\_\_\_